

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBHQZ-WTW-P23030988-1

FCC ID: AK8J20H105

Product: WLAN/BT Combo Module(WiFi 6E)

Brand: FOXCONN

Model No.: J20H105

Received Date: 2023/3/31

Test Date: 2023/5/11 ~ 2023/6/10

Issued Date: 2023/6/20

Applicant: Sony Group Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 723255 / TW2022

Designation Number:

Approved by:  _____, **Date:** 2023/6/20
May Chen / Manager

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Prepared by : Vito Lung / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBHQZ-WTW-P23030988-1	Original release.	2023/6/20

1 Certificate

Product: WLAN/BT Combo Module(WiFi 6E)

Brand: FOXCONN

Test Model: J20H105

Sample Status: Engineering sample

Applicant: Sony Group Corporation

Test Date: 2023/5/11 ~ 2023/6/10

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2013

procedure: KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -25.54 dB at 28.26330 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -14.6 dB at 54.35 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5150.00, 5350.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Specification	Uncertainty (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	WLAN/BT Combo Module(WiFi 6E)
Brand	FOXCONN
Test Model	J20H105
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6
Output Power	5.18 GHz ~ 5.24 GHz : 247.836 mW (23.94 dBm) 5.26 GHz ~ 5.32 GHz : 246.364 mW (23.92 dBm) 5.5 GHz ~ 5.72 GHz : 233.505 mW (23.68 dBm) 5.745 GHz ~ 5.825 GHz : 298.534 mW (24.75 dBm)
EUT Category	Client device

Note:

1. There are WLAN (2.4GHz & 5GHz & 6GHz) and Bluetooth technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	Bluetooth
2	WLAN (5GHz)	Bluetooth
3	WLAN (6GHz)	Bluetooth

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	Antenna Net Gain(dBi)	Frequency range (GHz)	Antenna Type
WiFi 0	0.19	2.4~2.4835	Monopole
	1.74	5.15~5.25	
	1.41	5.25~5.35	
	2.97	5.47~5.725	
	2.2	5.725~5.85	
	2.5	5.925~6.425	
	2.76	6.425~6.525	
	2.9	6.525~6.875	
	2.74	6.875~7.125	
WiFi 1	3.5	2.4~2.4835	Monopole
	1.84	5.15~5.25	
	1.9	5.25~5.35	
	2.3	5.47~5.725	
	2.1	5.725~5.85	
	2.3	5.925~6.425	
	1.11	6.425~6.525	
	1.83	6.525~6.875	
	3.66	6.875~7.125	
BT0	1.5	2.4~2.4835	PIFA
BT1	0.2	2.4~2.4835	PIFA

Note: Bluetooth has diversity function, the max. gain antenna was chosen for the test.

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

3.3 Channel List

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: X-axis

Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
Frequency Stability	802.11a	-	36	un-modulation	-
AC Power Conducted Emissions	802.11ax (HE40)	CDD	159	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	159	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0

Note:
Partial RU (resource unit) reduction mechanisms are not supported.

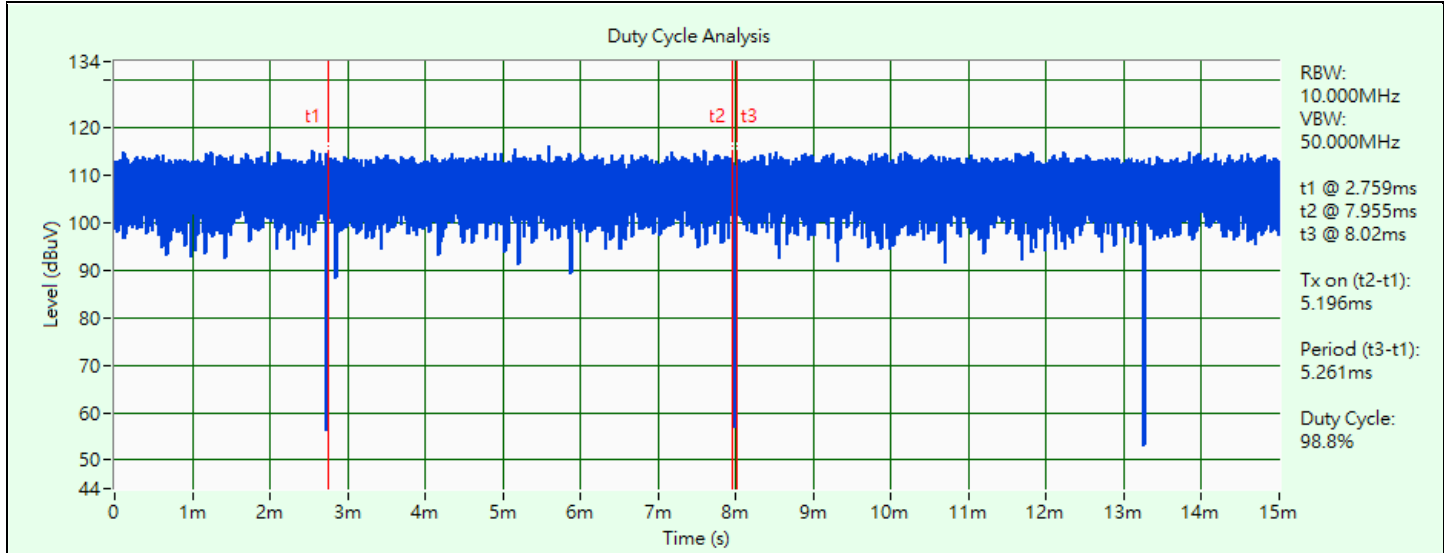
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 5.196 ms / 5.261 ms x 100% = 98.8%

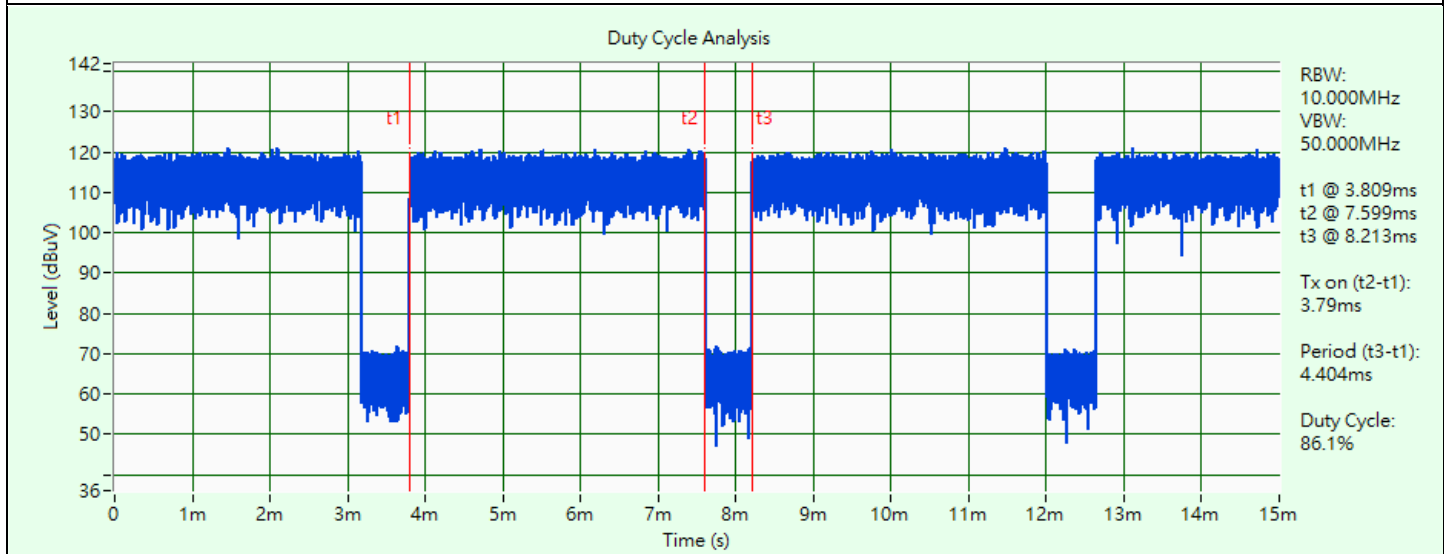
802.11ax (HE20): Duty cycle = 3.79 ms / 4.404 ms x 100% = 86.1%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.65 \text{ dB}$

802.11ax (HE40): Duty cycle = 1.943 ms / 2.562 ms x 100% = 75.8%, duty factor = $10 * \log (1/\text{Duty cycle}) = 1.20 \text{ dB}$

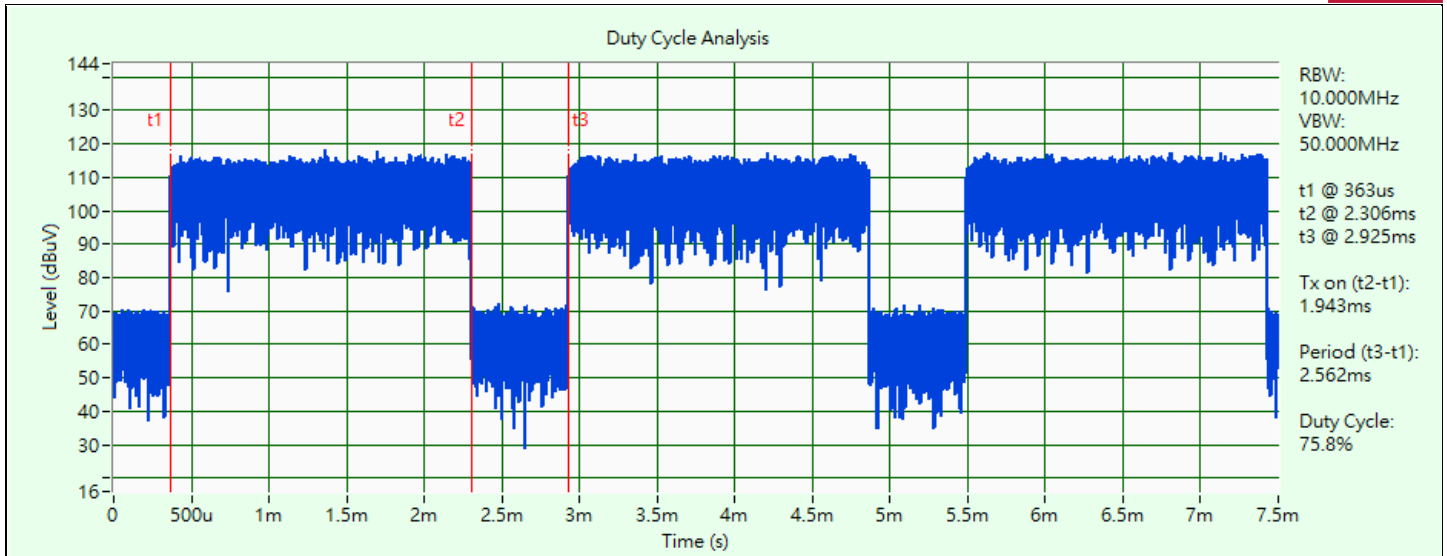
802.11ax (HE80): Duty cycle = 0.969 ms / 1.588 ms x 100% = 61.0%, duty factor = $10 * \log (1/\text{Duty cycle}) = 2.15 \text{ dB}$



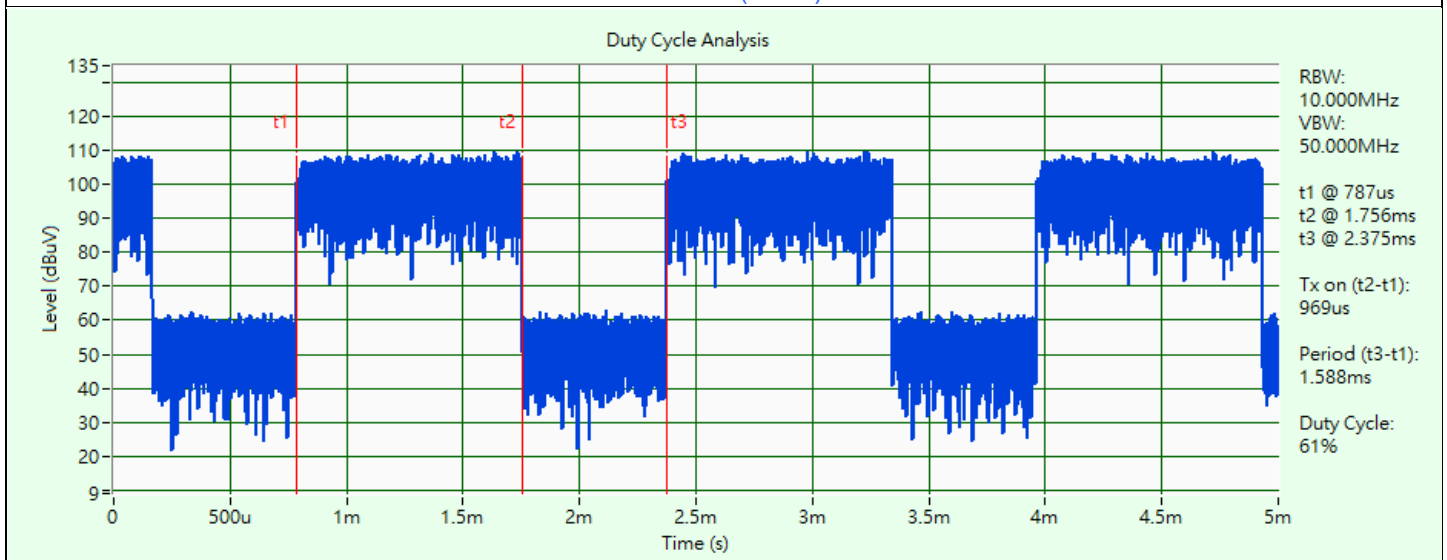
802.11a



802.11ax (HE20)



802.11ax (HE40)



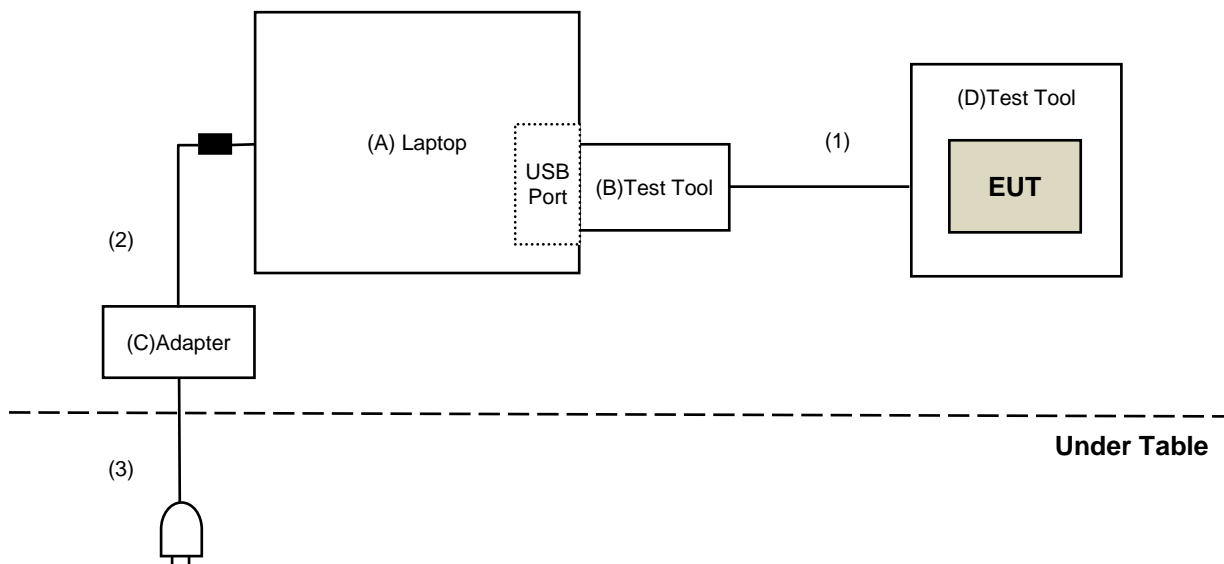
802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

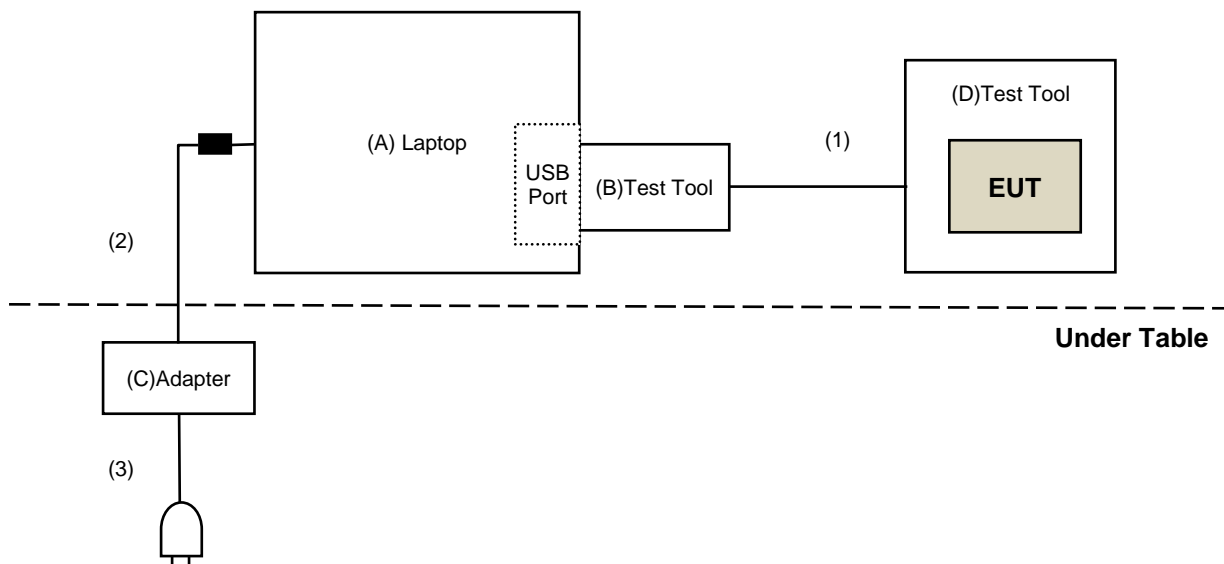
Controlling software (QATool_Dbg) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For AC Power Conducted Emission test



For Unwanted Emission test



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E6420	B92T3R1	QDS- BRCM1005-D	Provided by Lab
B	Test Tool	Foxconn	NA	NA	NA	Supplied by applicant
C	Adapter	Dell	FA65NE0-00	NA	NA	Provided by Lab
D	Test Tool	Sony	NA	NA	NA	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Console Cable	1	0.3	No	0	Supplied by applicant
2	DC Cable	1	1.8	No	1	Provided by Lab
3	AC Cable	1	1	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/10

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/10

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
DC POWER SUPPLY Topward	6603D	795558	N/A	N/A
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/12/26	2023/12/25
True RMS Clamp Meter Fluke	325	31130711WS	2022/6/9	2023/6/8

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/8

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-01	2022/9/27	2023/9/26
EMI Test Receiver R&S	ESCS 30	847124/029	2022/10/14	2023/10/13
Fixed Attenuator STI	STI02-2200-10	005	2022/8/24	2023/8/23
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2022/8/24	2023/8/23
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2023/6/2

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2022/10/21	2023/10/20
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2022/12/28	2023/12/27
Loop Antenna Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXE EMI Receiver Keysight	N9038A	MY54450088	2022/7/11	2023/7/10
Preamplifier Agilent	8447D	2944A10636	2023/3/12	2024/3/11
Preamplifier EMCI	EMC330N	980701	2023/2/18	2024/2/17
PXA Signal Analyzer Keysight	N9030B	MY57142938	2023/4/6	2024/4/5
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2023/2/18	2024/2/17
		966-4-2	2023/2/18	2024/2/17
		966-4-3	2023/2/18	2024/2/17
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
		LOOPCAB-002	2022/12/19	2023/12/18
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2023/5/31

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2022/11/13	2023/11/12
	BBHA 9170	9170-739	2022/11/13	2023/11/12
Preamplifier EMCI	EMC12630SE	980688	2022/10/4	2023/10/3
	EMC184045SE	980387	2022/12/28	2023/12/27
PXA Signal Analyzer Keysight	N9030B	MY57142938	2023/4/6	2024/4/5
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC102-KM-KM-1200	160924	2022/12/28	2023/12/27
	EMC104-SM-SM-1200	160922	2022/12/15	2023/12/14
	EMC104-SM-SM-2000	180502	2023/3/27	2024/3/26
	EMC104-SM-SM-6000	210704	2022/11/4	2023/11/3
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2023/5/11 ~ 2023/5/30

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p \leq 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz

Operation Band	Limit
U-NII-2A	11 dBm/MHz
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

5.7 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.8 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.9 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBµV/m)	AV: 54 (dBµV/m)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)

For transmitters operating in the 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 68.2 (dBµV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBµV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBµV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBµV/m) ^{*4}

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

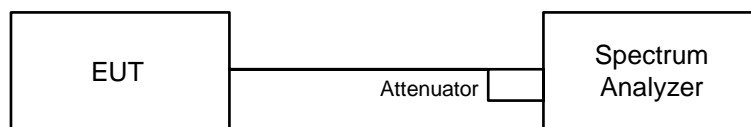
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup



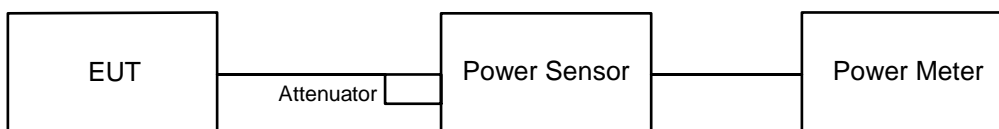
6.1.2 Test Procedure

- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

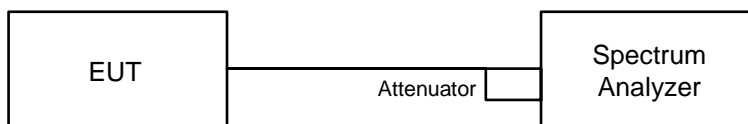
6.2 RF Output Power

6.2.1 Test Setup

Conducted Measurement Method



For channel straddling:



6.2.2 Test Procedure

Conducted Measurement Method

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

For channel straddling:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

For channel straddling:

Method SA-2

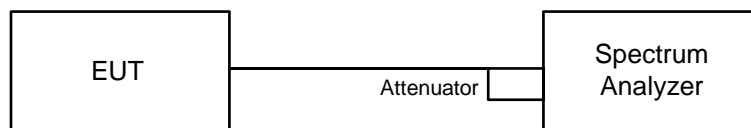
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.) Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

6.3 Power Spectral Density

6.3.1 Test Setup

Conducted Measurement Method



6.3.2 Test Procedure

Conducted Measurement Method

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

For specified measurement bandwidth 1 MHz:

Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW \geq 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

For specified measurement bandwidth 500 kHz:

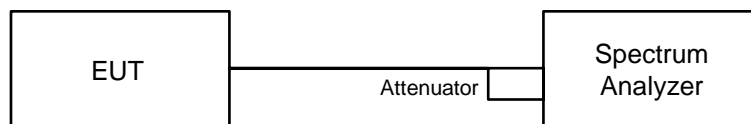
Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW \geq 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points \geq $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)

- e. Sweep time = auto, trigger set to “free run”.
- f. Trace average at least 100 traces in power averaging mode.
- g. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- h. Record the max value and add $10 \log (1/\text{duty cycle})$.

6.4 6 dB Bandwidth

6.4.1 Test Setup

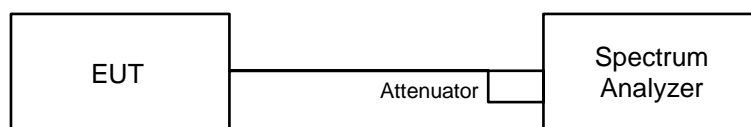


6.4.2 Test Procedure

- a. Set resolution bandwidth (RBW) = 100 kHz.
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup

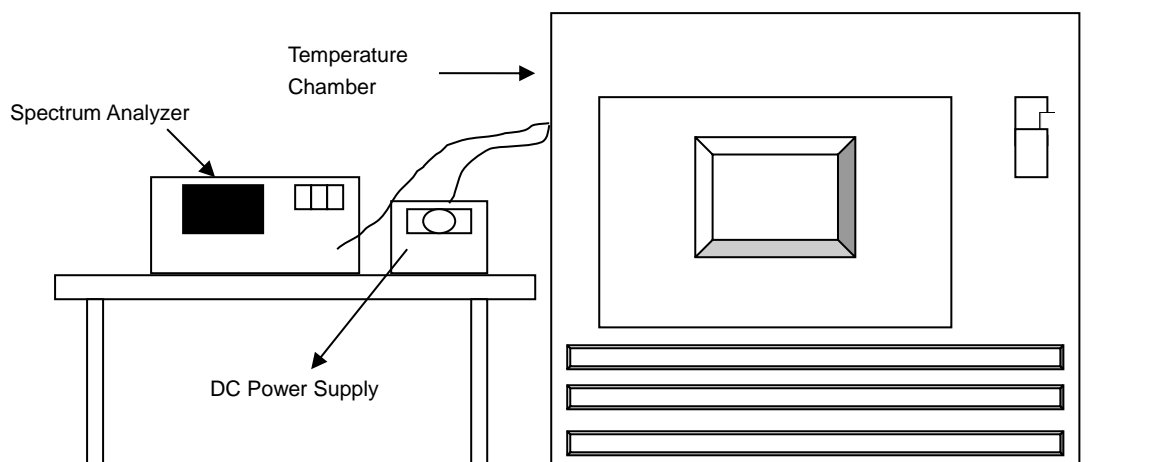


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 Frequency Stability

6.6.1 Test Setup

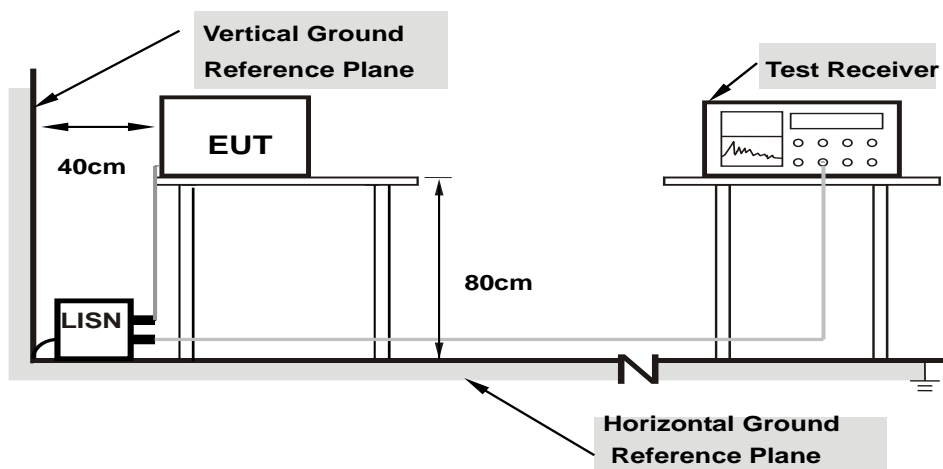


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.7.2 Test Procedure

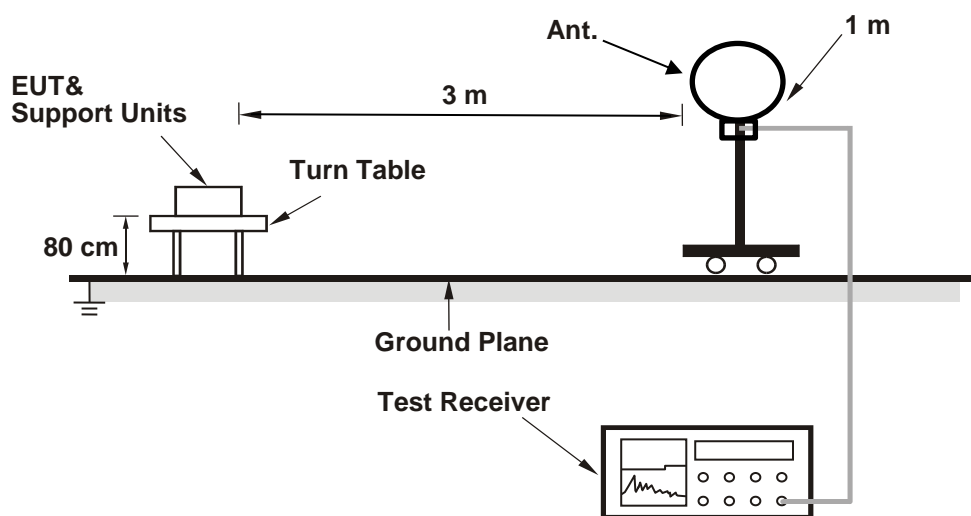
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

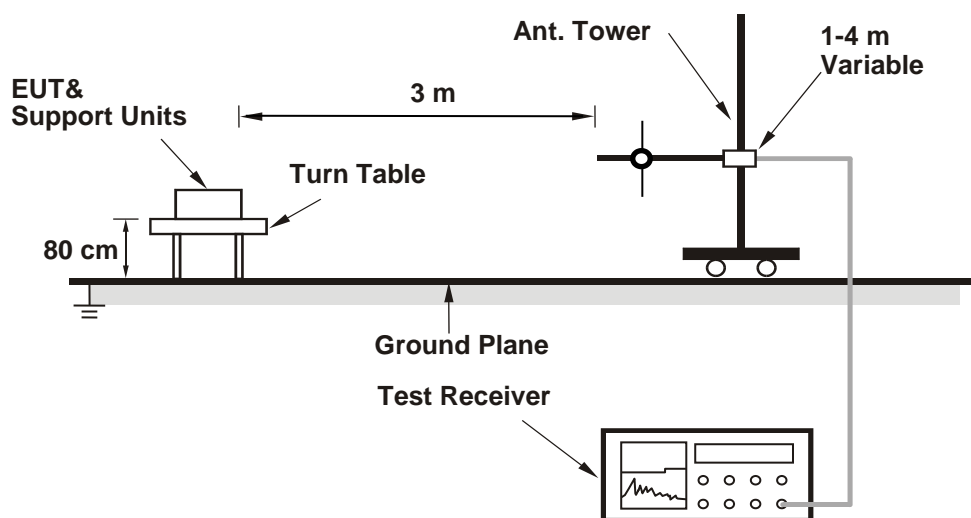
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

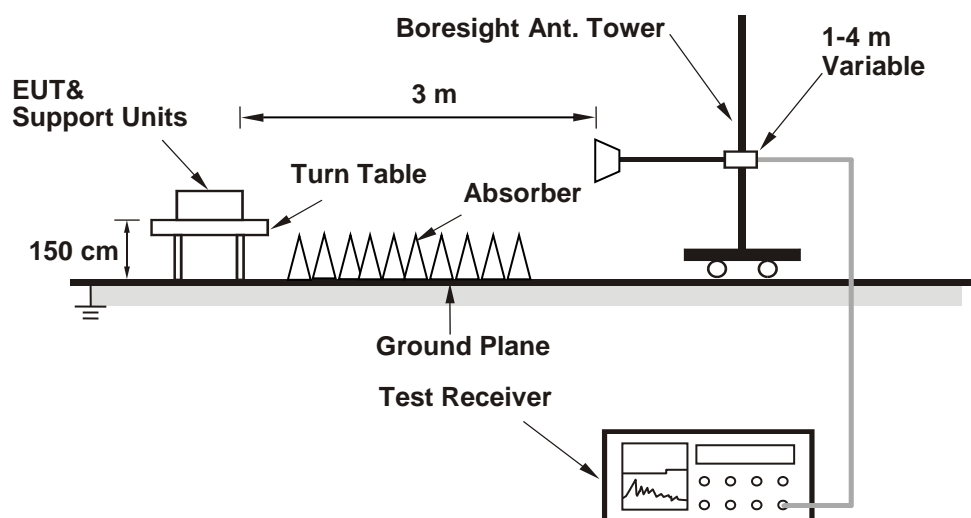
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.9.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	43.93	40.29
60	5300	41.94	39.44
64	5320	39.16	27.75
100	5500	27.44	26.70
116	5580	40.77	38.94
140	5700	26.27	27.79
144 (U-NII-2C)	5720	22.87	25.04
144 (U-NII-3)	5720	13.20	14.23

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	40.29	27.05 > 24
60	5300	39.44	26.95 > 24
64	5320	27.75	25.43 > 24
100	5500	26.70	25.26 > 24
116	5580	38.94	26.9 > 24
140	5700	26.27	25.19 > 24
144 (U-NII-2C)	5720	22.87	24.59 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	51.28	42.64
60	5300	48.29	46.23
64	5320	28.82	27.84
100	5500	25.43	27.97
116	5580	40.53	46.48
140	5700	35.41	35.93
144 (U-NII-2C)	5720	24.22	25.21
144 (U-NII-3)	5720	15.10	14.88

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
52	5260	42.64	27.29	> 24
60	5300	46.23	27.64	> 24
64	5320	27.84	25.44	> 24
100	5500	25.43	25.05	> 24
116	5580	40.53	27.07	> 24
140	5700	35.41	26.49	> 24
144 (U-NII-2C)	5720	24.22	24.84	> 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	79.54	73.11
62	5310	41.87	40.76
102	5510	40.66	40.60
110	5550	64.94	75.30
134	5670	59.74	69.76
142 (U-NII-2C)	5710	53.01	57.24
142 (U-NII-3)	5710	23.09	28.21

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	73.11	29.63 > 24
62	5310	40.76	27.1 > 24
102	5510	40.60	27.08 > 24
110	5550	64.94	29.12 > 24
134	5670	59.74	28.76 > 24
142 (U-NII-2C)	5710	53.01	28.24 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

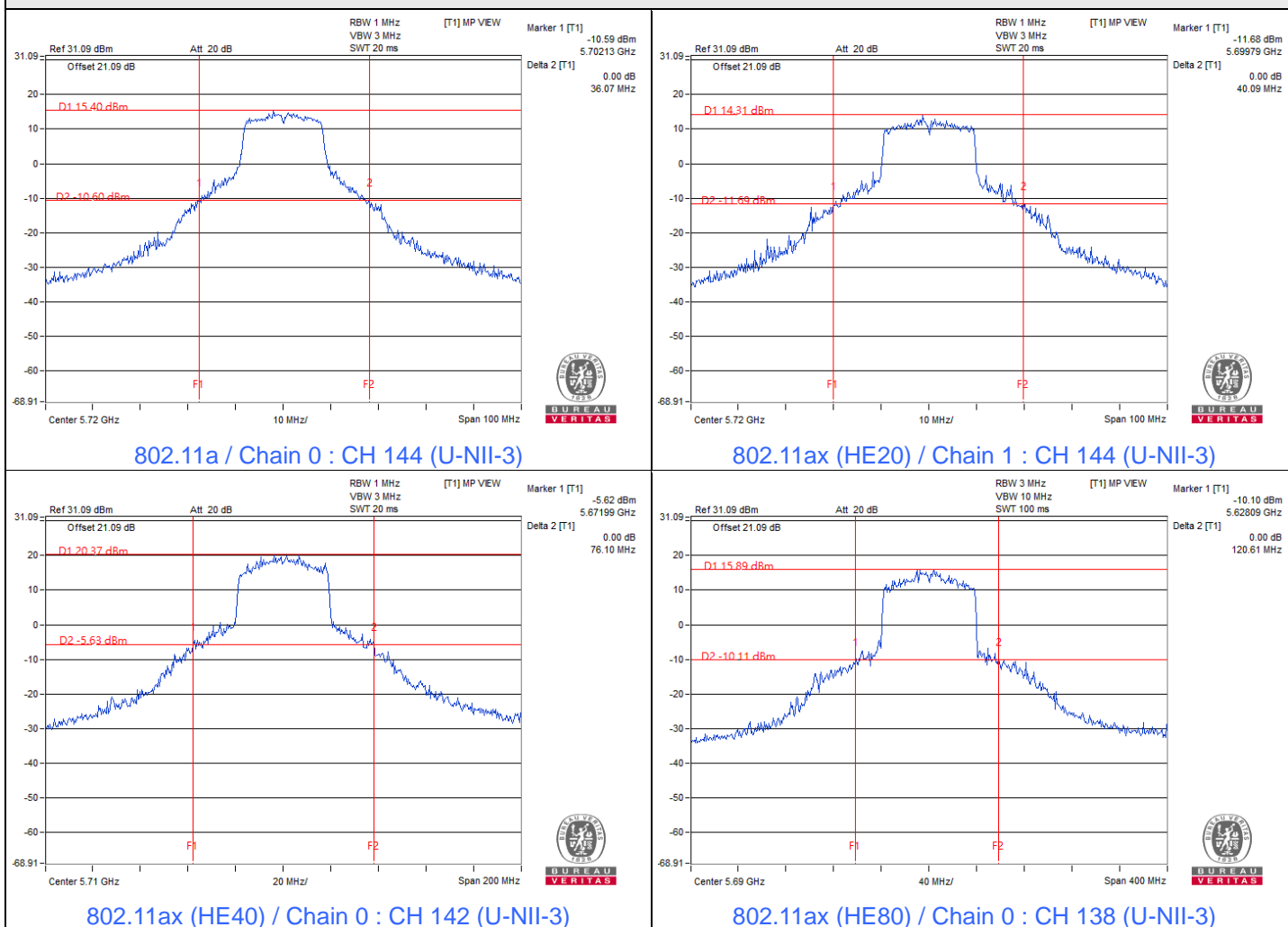
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.05	80.93
106	5530	81.17	81.11
122	5610	97.74	98.04
138 (U-NII-2C)	5690	96.91	131.93
138 (U-NII-3)	5690	23.70	39.79

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	80.93	30.08 > 24
106	5530	81.11	30.09 > 24
122	5610	97.74	30.9 > 24
138 (U-NII-2C)	5690	96.91	30.86 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

Spectrum Plot of Minimum Value



Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.2 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.98	17.62	136.877	21.36	24	Pass
40	5200	20.92	19.62	215.217	23.33	24	Pass
48	5240	21.38	20.22	242.6	23.85	24	Pass
52	5260	21.12	20.15	232.934	23.67	24	Pass
60	5300	21.11	20.52	241.842	23.84	24	Pass
64	5320	19.59	18.83	167.375	22.24	24	Pass
100	5500	18.42	18.06	133.476	21.25	24	Pass
116	5580	21.52	19.53	231.649	23.65	24	Pass
140	5700	18.73	16.87	123.286	20.91	24	Pass
*144 (U-NII-2C)	5720	20.31	17.51	163.763	22.14	24	Pass
*144 (U-NII-3)	5720	12.46	10.72	29.423	14.69	30	Pass
149	5745	21.36	18.45	206.757	23.15	30	Pass
157	5785	22.83	20.15	295.381	24.70	30	Pass
165	5825	22.51	19.92	276.413	24.42	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 1.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.97 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.02	16.03	103.474	20.15	24	Pass
40	5200	20.12	18.22	169.176	22.28	24	Pass
48	5240	21.56	19.63	235.052	23.71	24	Pass
52	5260	21.13	19.61	221.129	23.45	24	Pass
60	5300	20.71	20.09	219.855	23.42	24	Pass
64	5320	18.49	17.62	128.441	21.09	24	Pass
100	5500	18.34	17.95	130.607	21.16	24	Pass
116	5580	21.20	19.51	221.156	23.45	24	Pass
140	5700	17.98	16.79	110.559	20.44	24	Pass
*144 (U-NII-2C)	5720	18.75	16.36	137.396	21.38	24	Pass
*144 (U-NII-3)	5720	12.91	10.54	35.868	15.55	30	Pass
149	5745	20.89	18.95	201.267	23.04	30	Pass
157	5785	22.16	19.84	260.82	24.16	30	Pass
165	5825	21.97	19.56	247.763	23.94	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.84 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 2.97 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	16.90	15.64	85.622	19.33	24	Pass
46	5230	20.34	19.86	204.971	23.12	24	Pass
54	5270	21.15	20.13	233.355	23.68	24	Pass
62	5310	16.52	16.01	84.777	19.28	24	Pass
102	5510	15.92	15.93	78.258	18.94	24	Pass
110	5550	20.60	19.99	214.585	23.32	24	Pass
134	5670	19.21	19.03	163.352	22.13	24	Pass
*142 (U-NII-2C)	5710	19.13	16.78	170.742	22.32	24	Pass
*142 (U-NII-3)	5710	7.94	5.83	13.253	11.22	30	Pass
151	5755	21.74	20.08	251.139	24.00	30	Pass
159	5795	22.39	20.41	283.281	24.52	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 1.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.97 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.69	14.19	63.31	18.01	24	Pass
58	5290	16.49	14.91	75.54	18.78	24	Pass
106	5530	15.71	15.42	72.073	18.58	24	Pass
122	5610	20.28	18.46	176.805	22.47	24	Pass
*138 (U-NII-2C)	5690	17.61	15.70	155.408	21.91	24	Pass
*138 (U-NII-3)	5690	2.82	1.08	5.239	7.19	30	Pass
155	5775	20.53	18.64	186.093	22.70	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 1.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.97 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	18.25	16.26	109.101	20.38	24	Pass
40	5200	20.35	18.46	178.538	22.52	24	Pass
48	5240	21.79	19.86	247.836	23.94	24	Pass
52	5260	21.36	19.85	233.378	23.68	24	Pass
60	5300	20.95	20.34	232.595	23.67	24	Pass
64	5320	18.74	17.88	136.193	21.34	24	Pass
100	5500	18.57	18.18	137.711	21.39	24	Pass
116	5580	21.44	19.74	233.505	23.68	24	Pass
140	5700	18.22	17.04	116.957	20.68	24	Pass
*144 (U-NII-2C)	5720	18.75	16.36	137.396	21.38	24	Pass
*144 (U-NII-3)	5720	12.91	10.54	35.868	15.55	30	Pass
149	5745	21.13	19.18	212.512	23.27	30	Pass
157	5785	22.39	20.08	275.24	24.40	30	Pass
165	5825	22.19	19.79	260.857	24.16	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 1.84 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 2.97 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	17.14	15.87	90.397	19.56	24	Pass
46	5230	20.57	20.09	216.119	23.35	24	Pass
54	5270	21.39	20.36	246.364	23.92	24	Pass
62	5310	16.76	16.25	89.594	19.52	24	Pass
102	5510	16.15	16.17	82.61	19.17	24	Pass
110	5550	20.84	20.22	226.535	23.55	24	Pass
134	5670	19.45	19.29	173.023	22.38	24	Pass
*142 (U-NII-2C)	5710	19.13	16.78	170.742	22.32	24	Pass
*142 (U-NII-3)	5710	7.94	5.83	13.253	11.22	30	Pass
151	5755	21.97	20.31	264.797	24.23	30	Pass
159	5795	22.61	20.65	298.534	24.75	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 1.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.97 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.

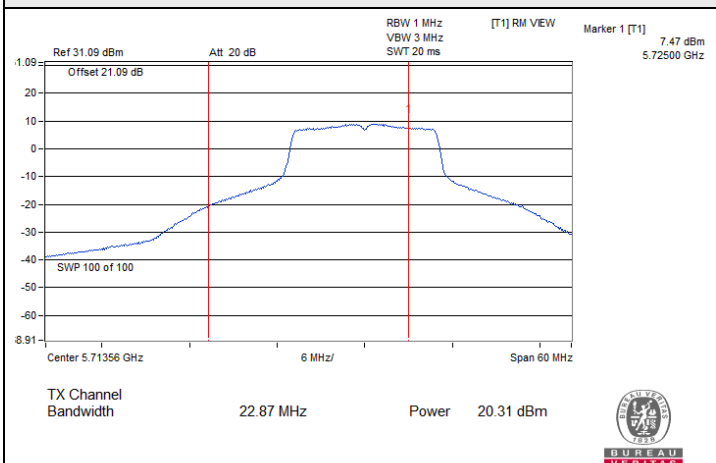
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	15.93	14.41	66.78	18.25	24	Pass
58	5290	16.74	15.14	79.865	19.02	24	Pass
106	5530	15.94	15.65	75.993	18.81	24	Pass
122	5610	20.52	18.71	187.022	22.72	24	Pass
*138 (U-NII-2C)	5690	17.61	15.70	155.408	21.91	24	Pass
*138 (U-NII-3)	5690	2.82	1.08	5.239	7.19	30	Pass
155	5775	20.77	18.88	196.667	22.94	30	Pass

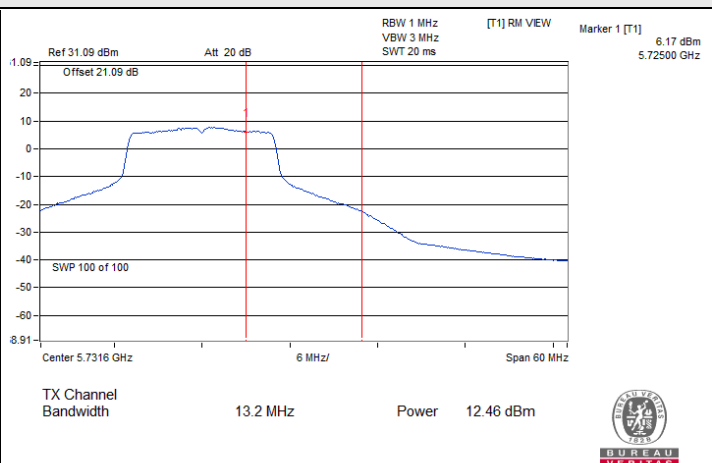
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 1.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 1.9 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.97 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.2 dBi < 6 dBi, so the output power limit shall not be reduced.

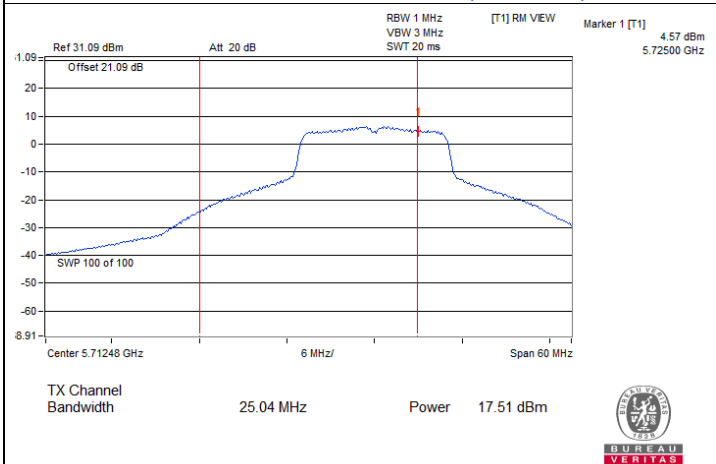
Spectrum Plot for channel straddling



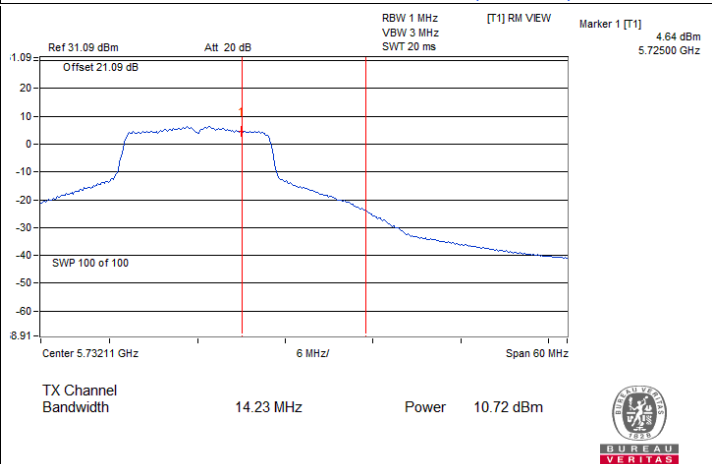
802.11a / Chain 0 : CH 144 (U-NII-2C)



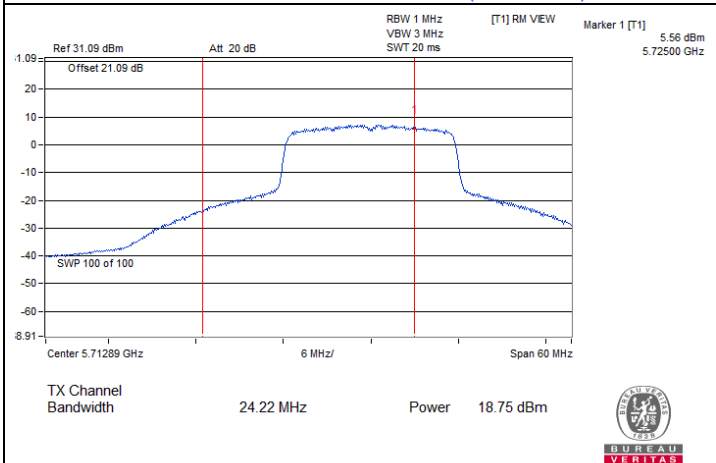
802.11a / Chain 0 : CH 144 (U-NII-3)



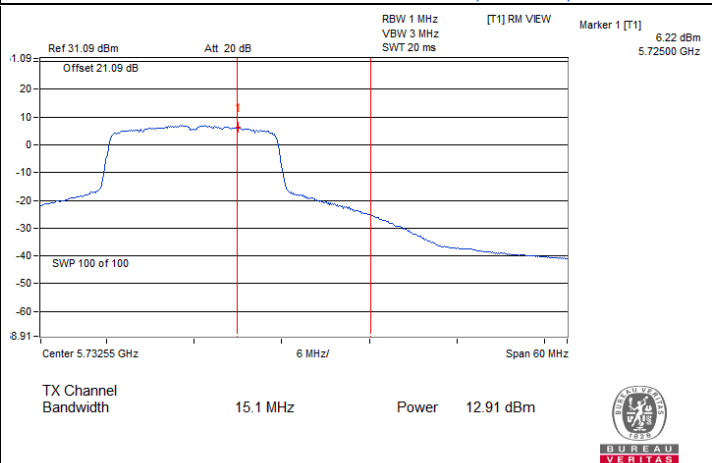
802.11a / Chain 1 : CH 144 (U-NII-2C)



802.11a / Chain 1 : CH 144 (U-NII-3)



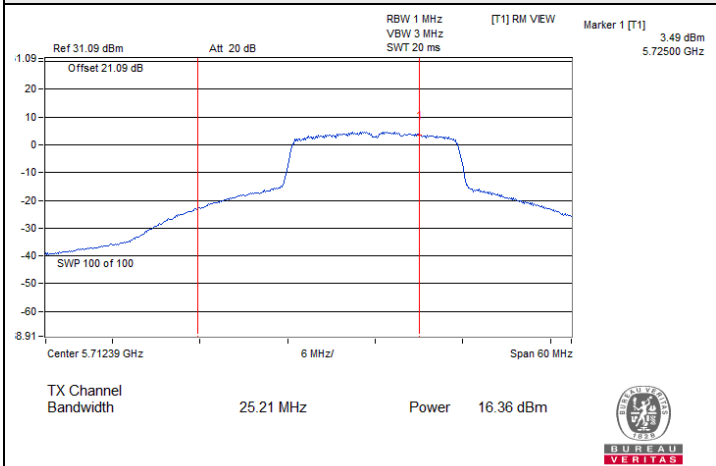
802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-2C)



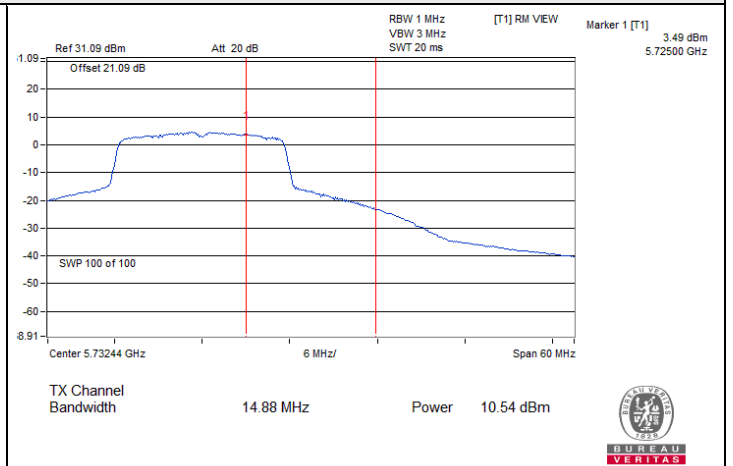
802.11ac (VHT20) / Chain 0 : CH 144 (U-NII-3)



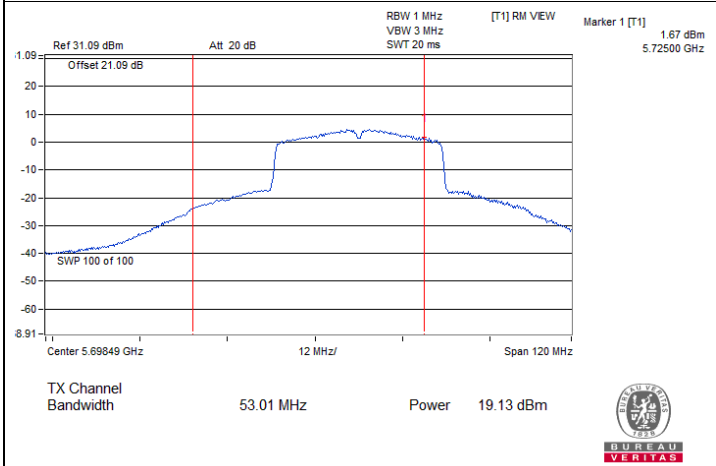
Spectrum Plot for channel straddling



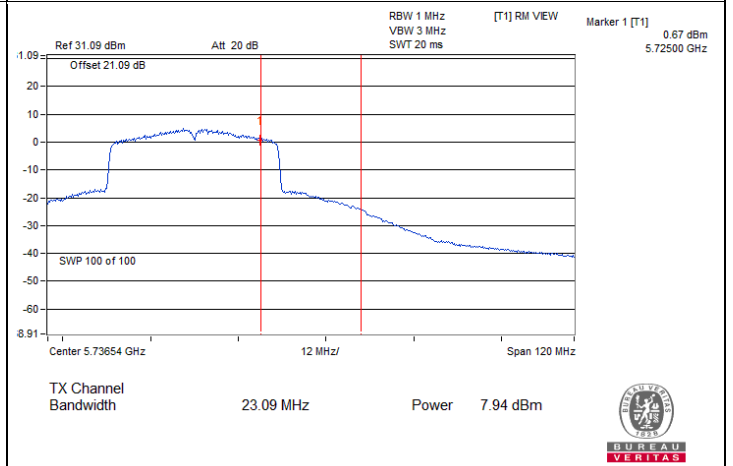
802.11ac (VHT20) / Chain 1 : CH 144 (U-NII-2C)



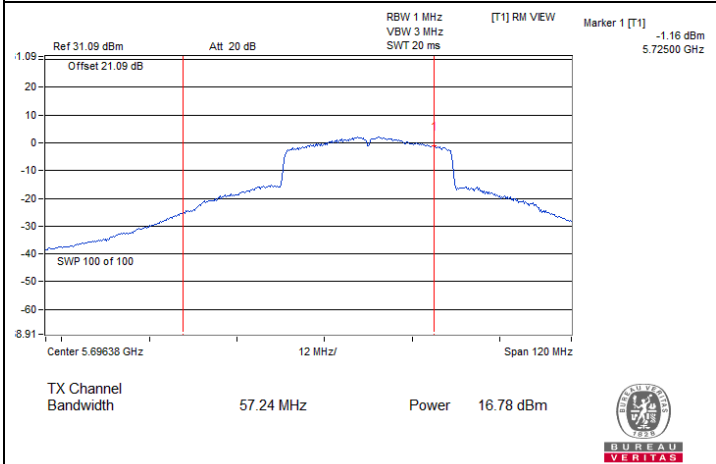
802.11ac (VHT20) / Chain 1 : CH 144 (U-NII-3)



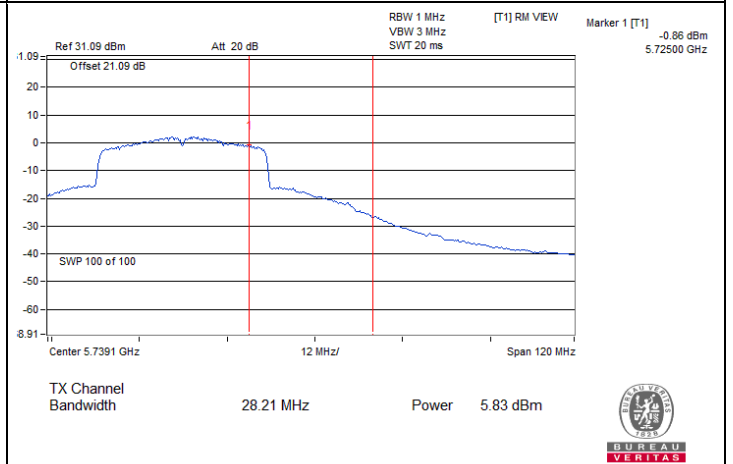
802.11ac (VHT40) / Chain 0 : CH 142 (U-NII-2C)



802.11ac (VHT40) / Chain 0 : CH 142 (U-NII-3)



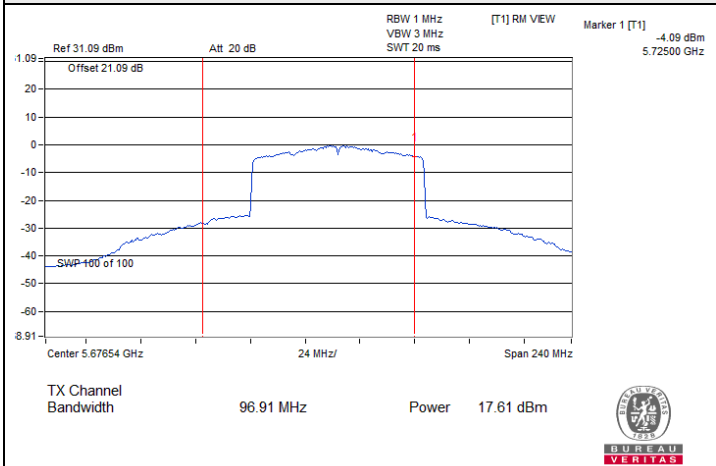
802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-2C)



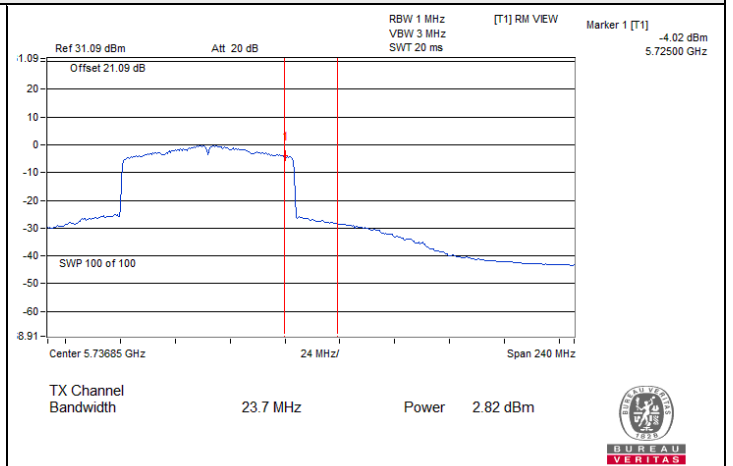
802.11ac (VHT40) / Chain 1 : CH 142 (U-NII-3)



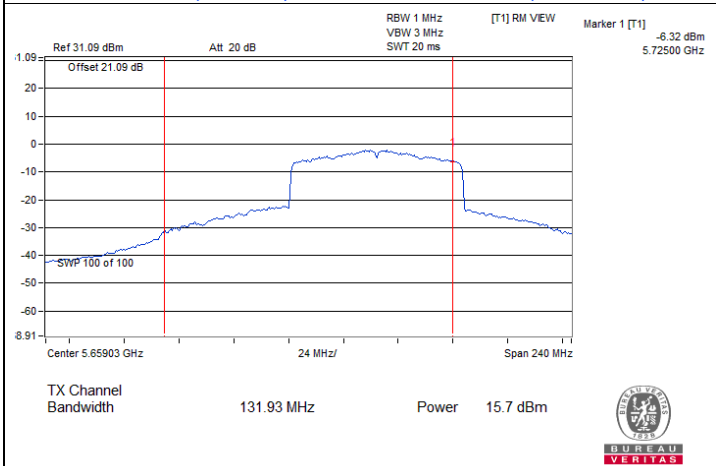
Spectrum Plot for channel straddling



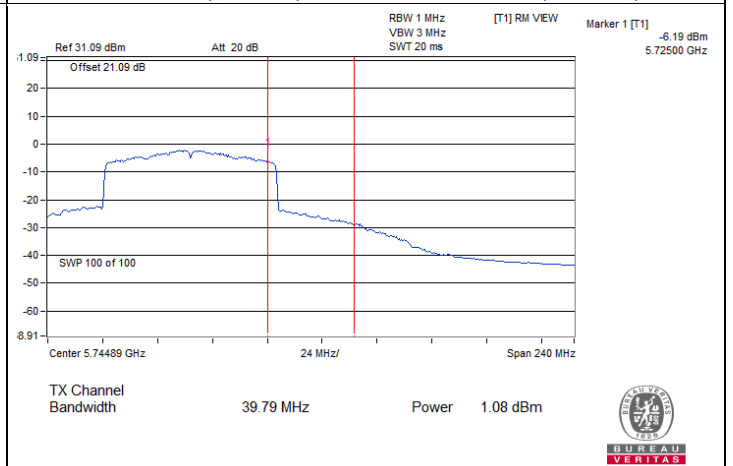
802.11ac (VHT80) / Chain 0 : CH 138 (U-NII-2C)



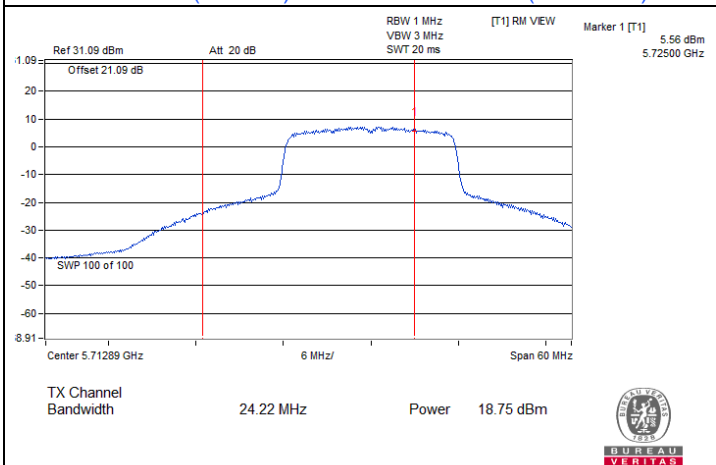
802.11ac (VHT80) / Chain 0 : CH 138 (U-NII-3)



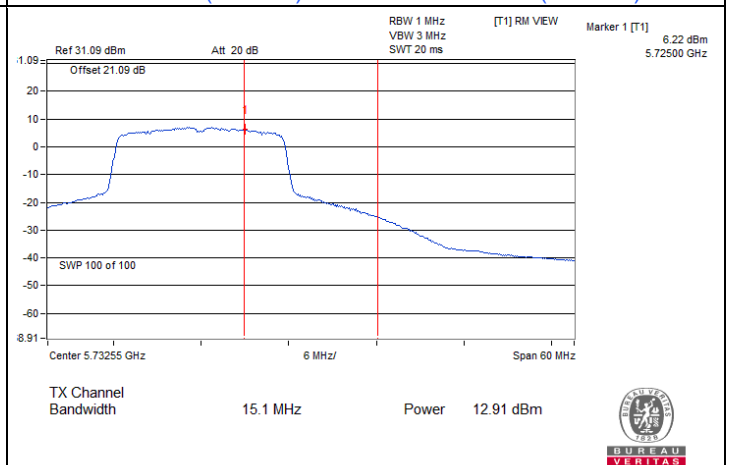
802.11ac (VHT80) / Chain 1 : CH 138 (U-NII-2C)



802.11ac (VHT80) / Chain 1 : CH 138 (U-NII-3)



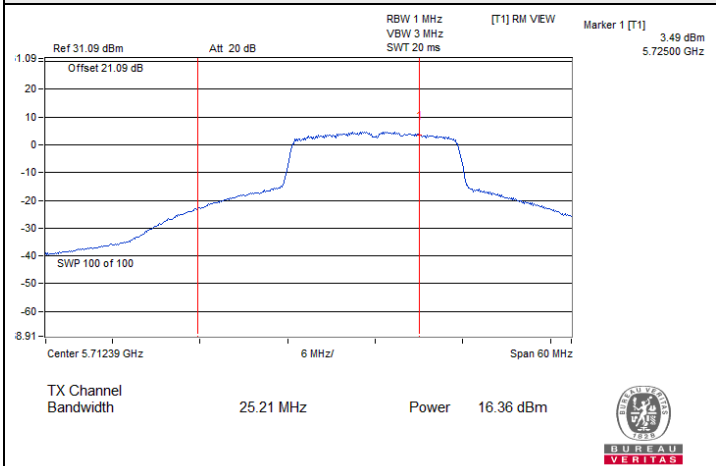
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



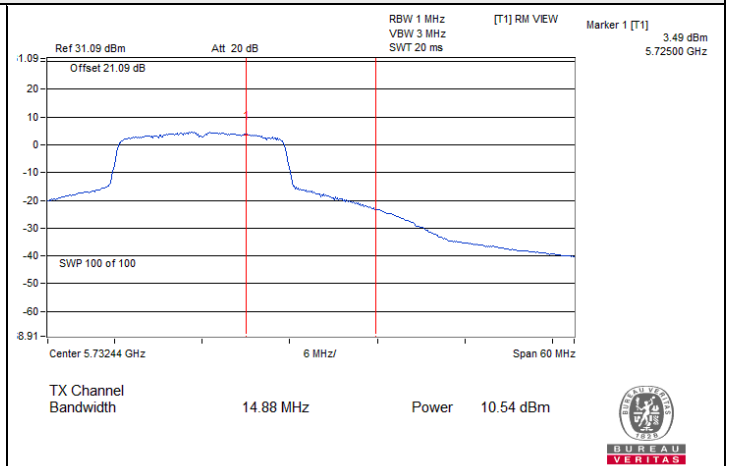
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



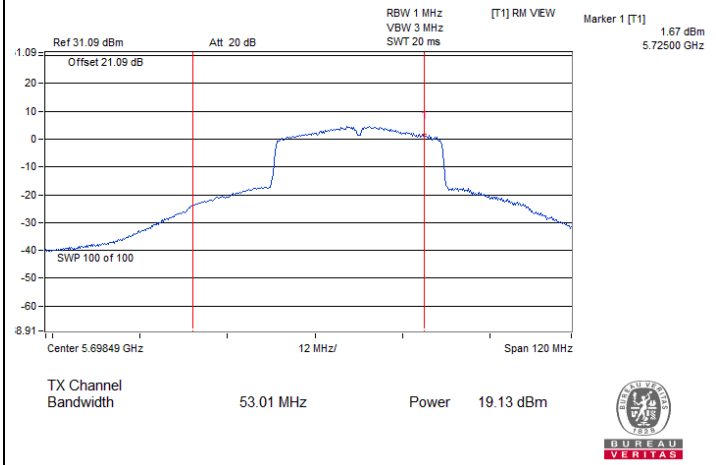
Spectrum Plot for channel straddling



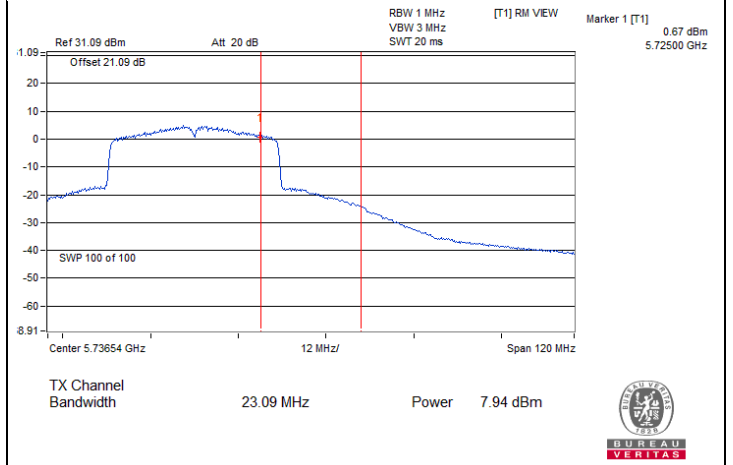
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



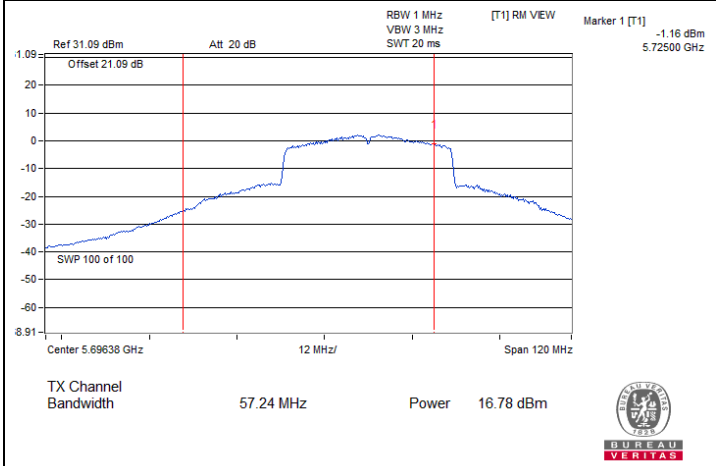
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



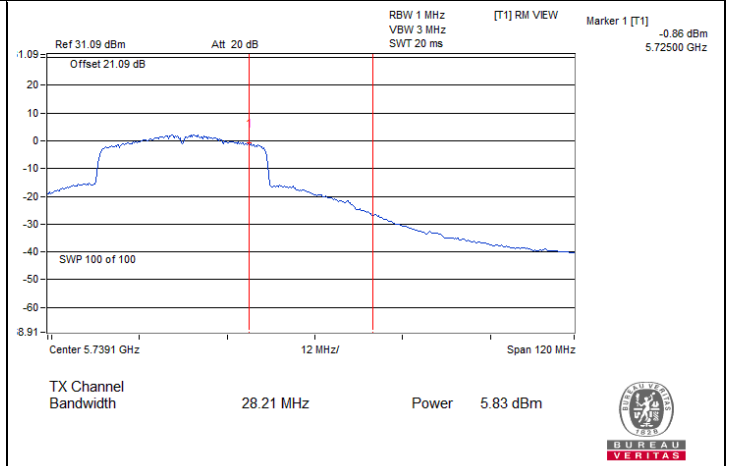
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)

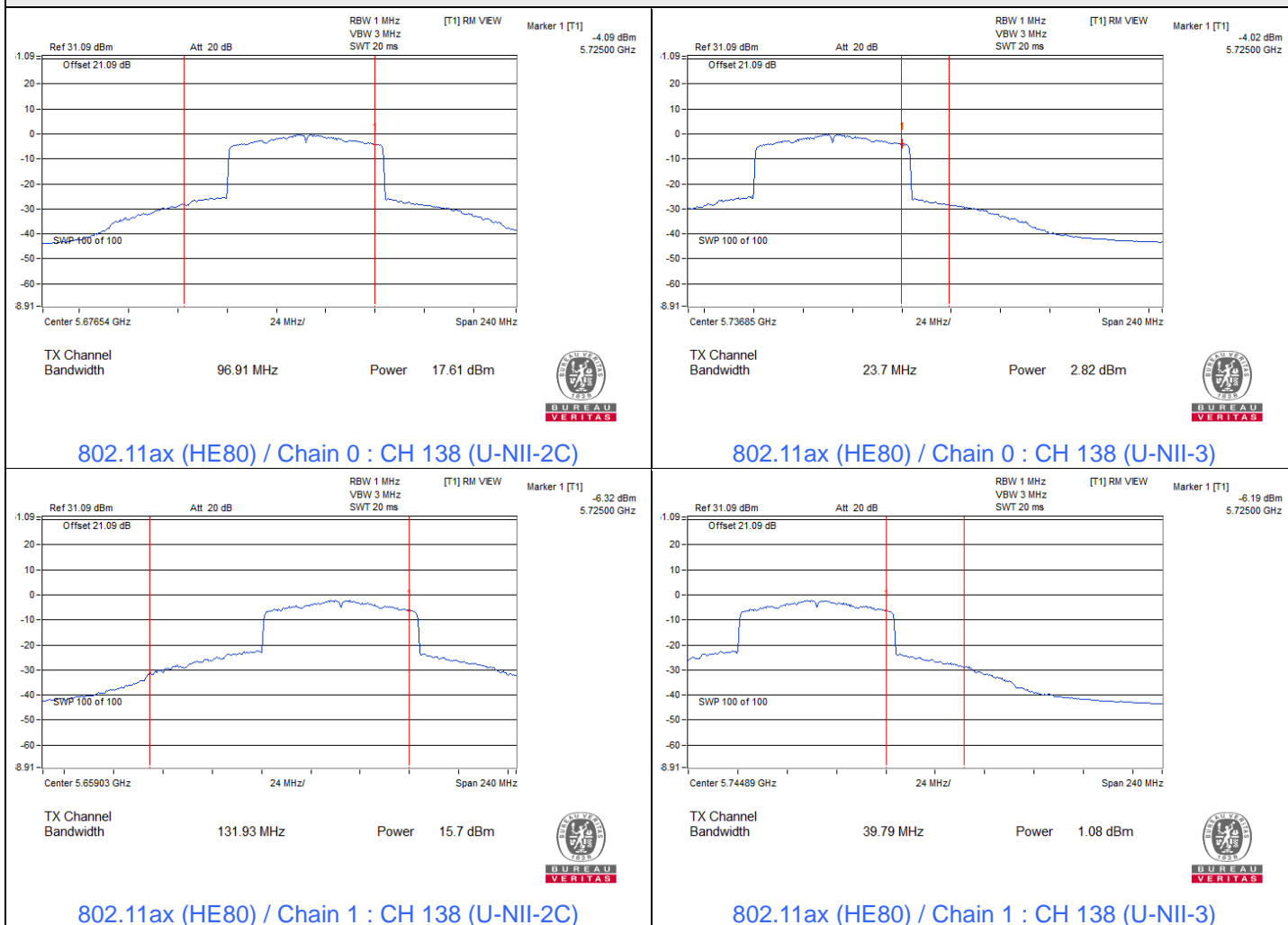


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



7.3 Power Spectral Density

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.61	4.35	8.04	11	Pass
40	5200	7.54	6.30	9.97	11	Pass
48	5240	7.78	7.09	10.46	11	Pass
52	5260	7.88	6.66	10.32	11	Pass
60	5300	7.73	6.87	10.33	11	Pass
64	5320	6.08	5.35	8.74	11	Pass
100	5500	5.41	4.70	8.08	11	Pass
116	5580	8.47	6.48	10.60	11	Pass
140	5700	5.41	3.24	7.47	11	Pass
144 (U-NII-2C)	5720	9.03	6.39	10.92	11	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 4.8 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.67 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.65 dBi < 6Bi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	3.90	1.78	0.65	6.63	11	Pass
40	5200	6.01	3.88	0.65	8.73	11	Pass
48	5240	7.32	5.54	0.65	10.18	11	Pass
52	5260	7.22	5.44	0.65	10.08	11	Pass
60	5300	6.72	5.80	0.65	9.94	11	Pass
64	5320	4.59	3.37	0.65	7.68	11	Pass
100	5500	4.91	4.23	0.65	8.24	11	Pass
116	5580	6.94	5.26	0.65	9.84	11	Pass
140	5700	4.39	2.90	0.65	7.37	11	Pass
144 (U-NII-2C)	5720	7.65	5.01	0.65	10.19	11	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 4.8 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.67 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.65 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
38	5190	-0.34	-1.77	1.20	3.21	11	Pass
46	5230	3.61	1.03	1.20	6.72	11	Pass
54	5270	3.14	2.46	1.20	7.02	11	Pass
62	5310	0.05	-0.72	1.20	3.89	11	Pass
102	5510	-0.23	-0.86	1.20	3.68	11	Pass
110	5550	4.18	2.77	1.20	7.74	11	Pass
134	5670	3.59	2.27	1.20	7.19	11	Pass
142 (U-NII-2C)	5710	5.13	2.93	1.20	8.38	11	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 4.8 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.67 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.65 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
42	5210	-6.75	-8.68	2.15	-2.45	11	Pass
58	5290	-6.00	-7.81	2.15	-1.65	11	Pass
106	5530	-6.08	-7.05	2.15	-1.38	11	Pass
122	5610	-1.49	-4.18	2.15	2.53	11	Pass
138 (U-NII-2C)	5690	-0.19	-2.21	2.15	4.08	11	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 4.8 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.67 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.65 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-0.41	-3.22	1.42	3.64	30	Pass
149	5745	-2.25	-2.63	0.57	2.79	30	Pass
157	5785	-0.71	-1.78	1.8	4.02	30	Pass
165	5825	-0.52	-1.79	1.9	4.12	30	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 5.16 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-2.21	-4.41	-0.16	0.65	2.71	30	Pass
149	5745	-1.56	-3.90	0.44	0.65	3.31	30	Pass
157	5785	-0.23	-3.03	1.6	0.65	4.47	30	Pass
165	5825	-0.36	-3.69	1.3	0.65	4.17	30	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 5.16 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
142 (U-NII-3)	5710	-7.14	-9.23	-5.05	1.2	-1.63	30	Pass
151	5755	-3.61	-5.87	-1.58	1.2	1.84	30	Pass
159	5795	-3.50	-6.35	-1.68	1.2	1.74	30	Pass

Notes:

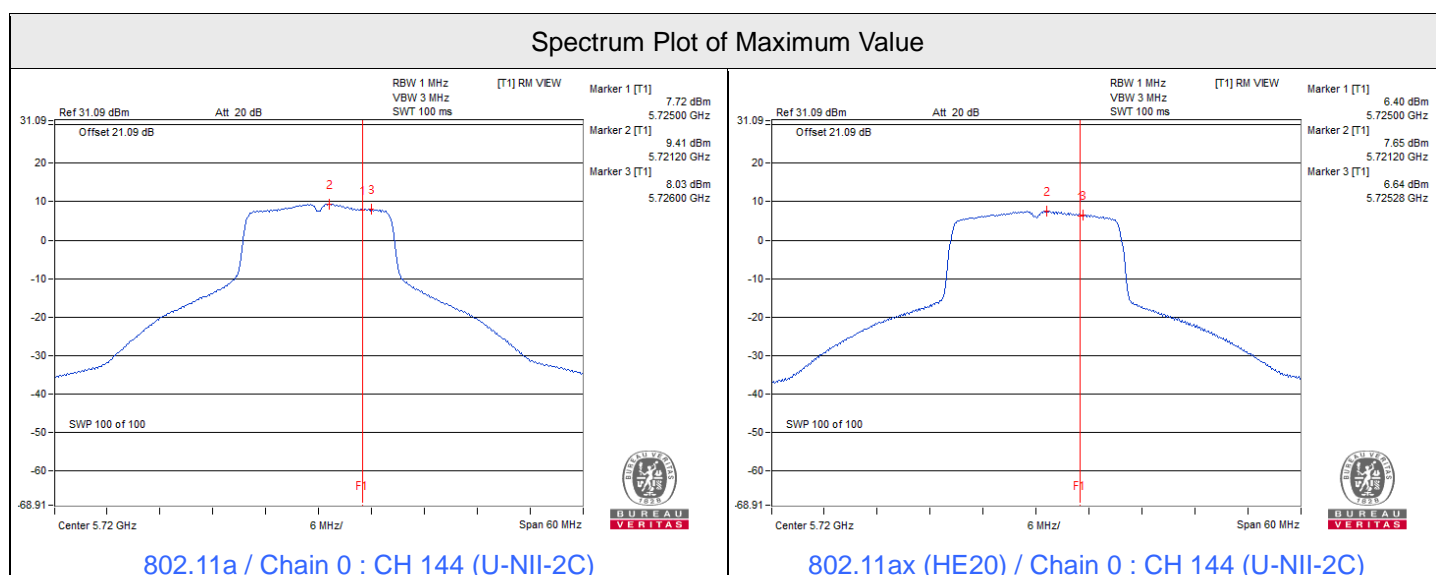
- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 5.16 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

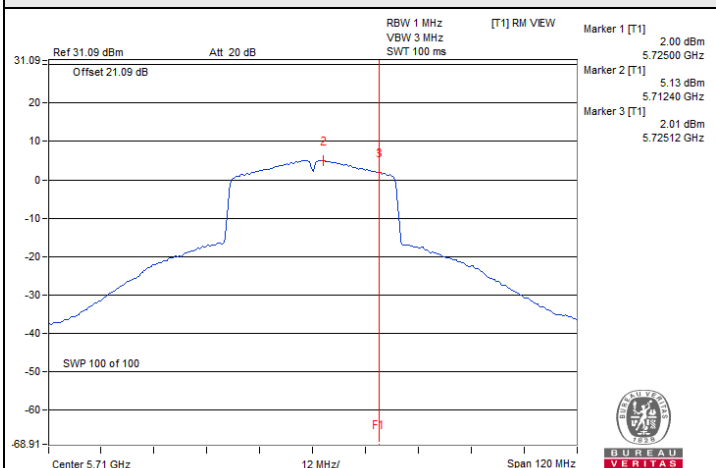
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
138 (U-NII-3)	5690	-13.11	-14.97	-10.93	2.15	-6.56	30	Pass
155	5775	-9.67	-12.97	-8	2.15	-3.63	30	Pass

Notes:

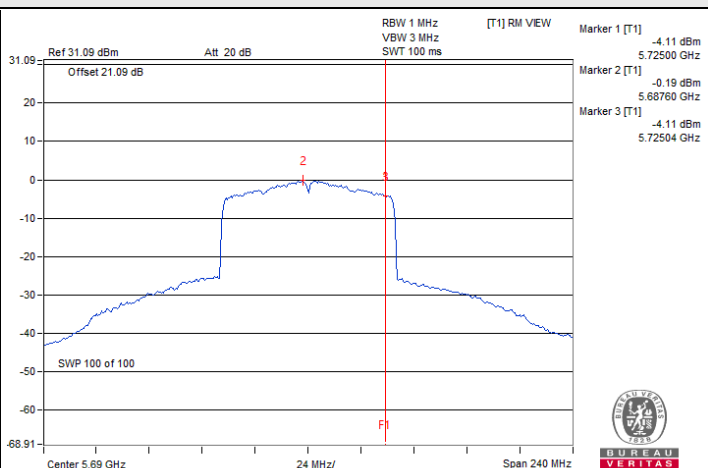
- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 5.16 dBi < 6 dBi, so the power density limit shall not be reduced.



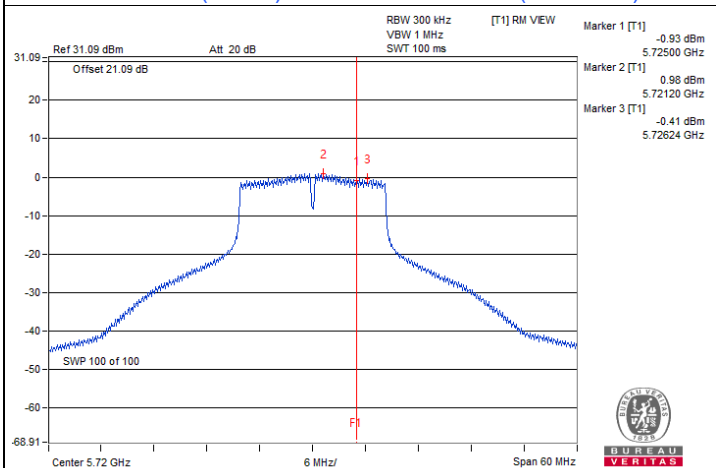
Spectrum Plot of Maximum Value



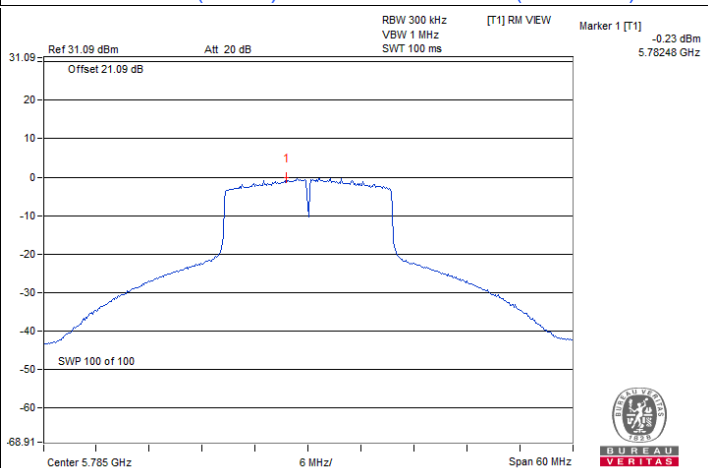
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



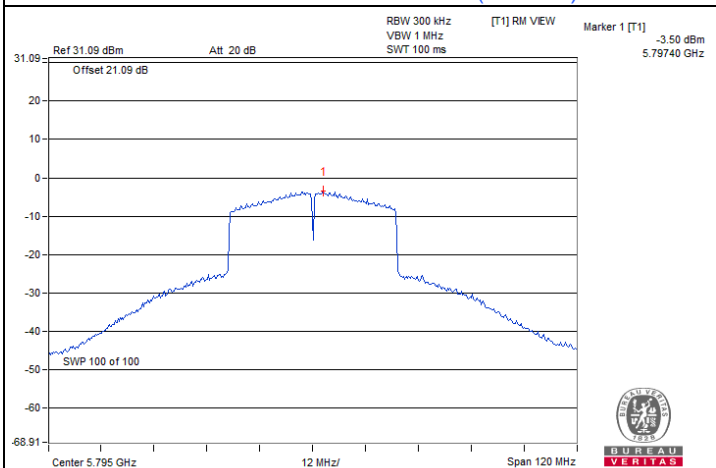
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



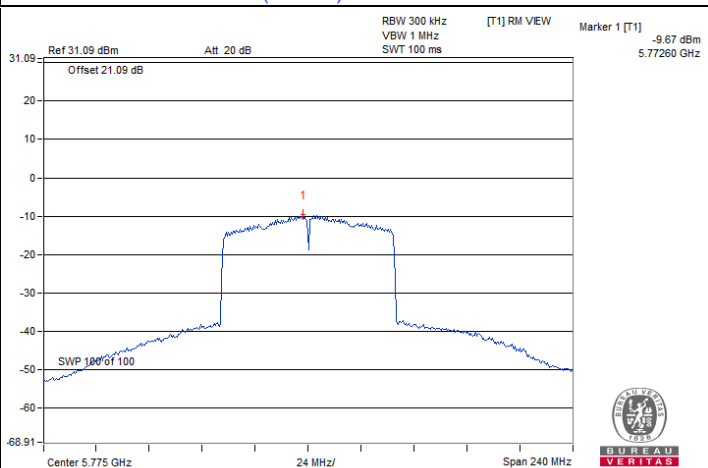
802.11a / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain 0 : CH 157



802.11ax (HE40) / Chain 0 : CH 159



802.11ax (HE80) / Chain 0 : CH 155

7.4 6 dB Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	2.90	3.15	0.5	Pass
149	5745	16.31	16.36	0.5	Pass
157	5785	16.33	16.37	0.5	Pass
165	5825	16.36	16.37	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.37	3.88	0.5	Pass
149	5745	18.65	18.73	0.5	Pass
157	5785	18.30	18.07	0.5	Pass
165	5825	18.42	17.86	0.5	Pass

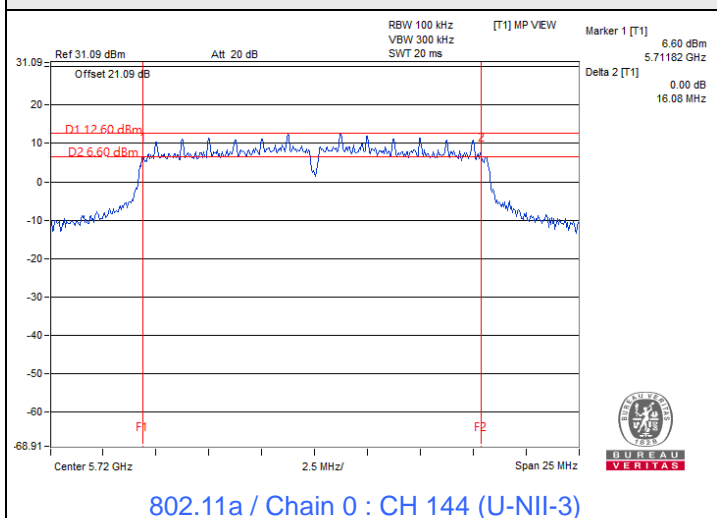
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	2.61	2.54	0.5	Pass
151	5755	35.24	33.88	0.5	Pass
159	5795	35.22	32.65	0.5	Pass

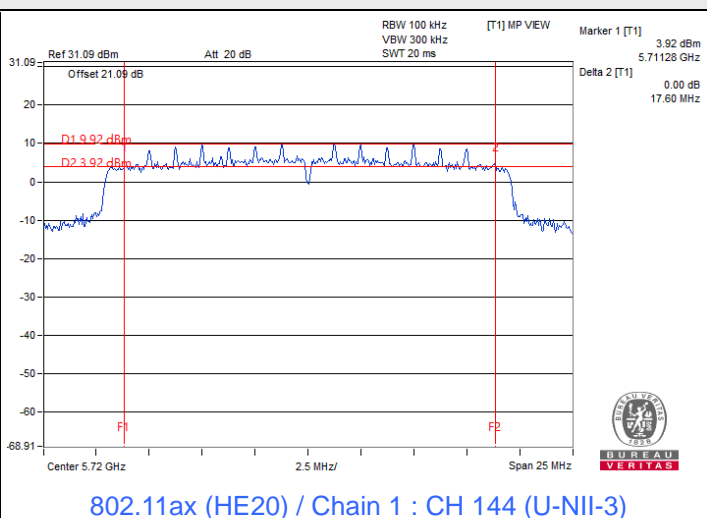
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	2.70	2.61	0.5	Pass
155	5775	75.42	75.34	0.5	Pass

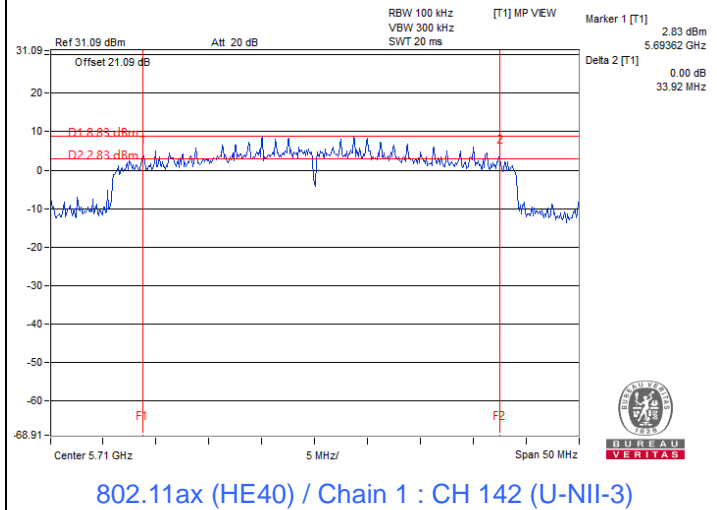
Spectrum Plot of Minimum Value



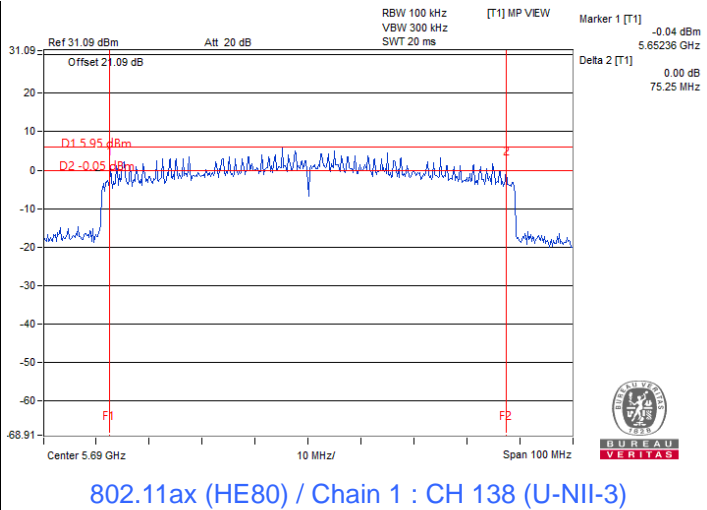
802.11a / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.5 Occupied Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.88	17.04
40	5200	20.76	17.88
48	5240	19.80	17.64
52	5260	22.20	18.36
60	5300	21.24	18.60
64	5320	17.76	17.40
100	5500	17.40	17.28
116	5580	19.08	18.72
140	5700	17.52	17.16
144 (U-NII-2C)	5720	15.68	16.88
144 (U-NII-3)	5720	5.20	6.28
149	5745	18.60	20.52
157	5785	23.31	26.28
165	5825	21.84	26.76

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.32	19.20
40	5200	19.80	19.20
48	5240	19.32	19.20
52	5260	25.56	19.56
60	5300	20.88	19.68
64	5320	19.20	19.20
100	5500	19.08	19.32
116	5580	19.44	19.92
140	5700	19.20	19.20
144 (U-NII-2C)	5720	14.96	17.48
144 (U-NII-3)	5720	4.84	7.00
149	5745	19.32	23.16
157	5785	21.36	32.20
165	5825	20.04	25.20

802.11ax (HE40)

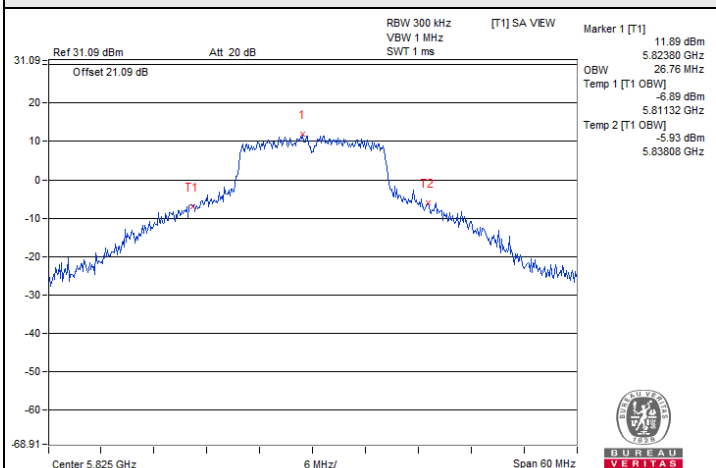
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.92	37.92
46	5230	41.76	37.92
54	5270	39.12	38.64
62	5310	37.92	37.68
102	5510	38.16	37.68
110	5550	38.88	42.00
134	5670	38.16	38.64
142 (U-NII-2C)	5710	34.68	43.32
142 (U-NII-3)	5710	5.16	12.12
151	5755	41.04	55.48
159	5795	41.04	52.70

802.11ax (HE80)

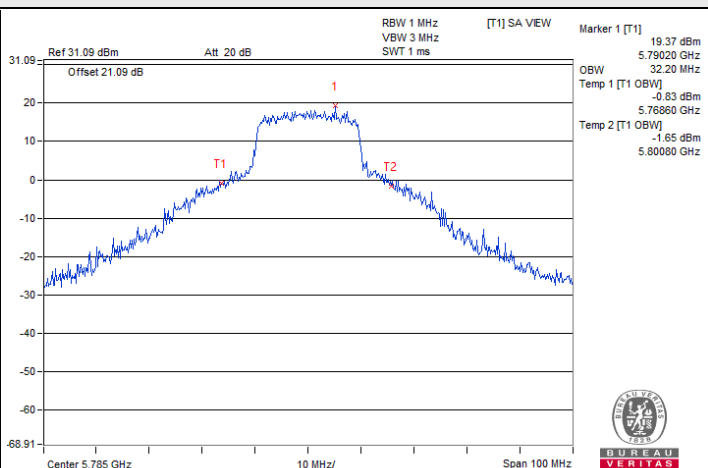
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.80	76.80
58	5290	77.28	76.80
106	5530	76.80	76.80
122	5610	76.80	77.28
138 (U-NII-2C)	5690	73.88	85.88
138 (U-NII-3)	5690	3.88	4.36
155	5775	77.76	78.24



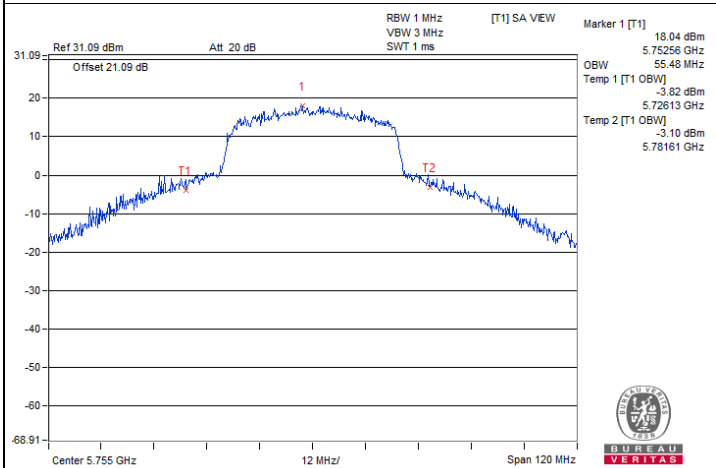
Spectrum Plot of Maximum Value



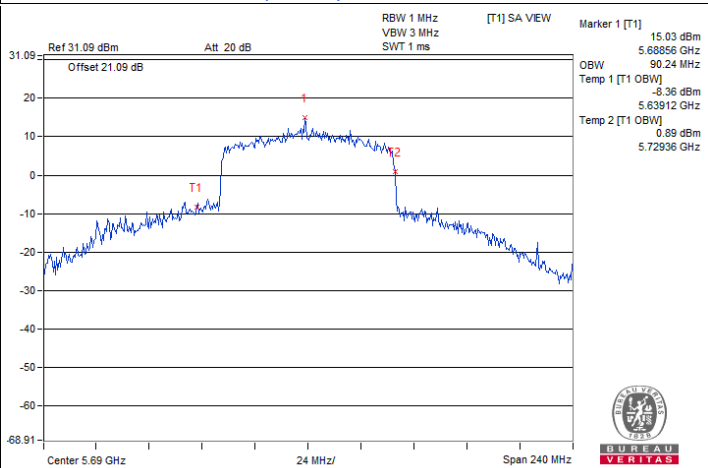
802.11a / Chain 1 : CH 165



802.11ax (HE20) / Chain 1 : CH 157

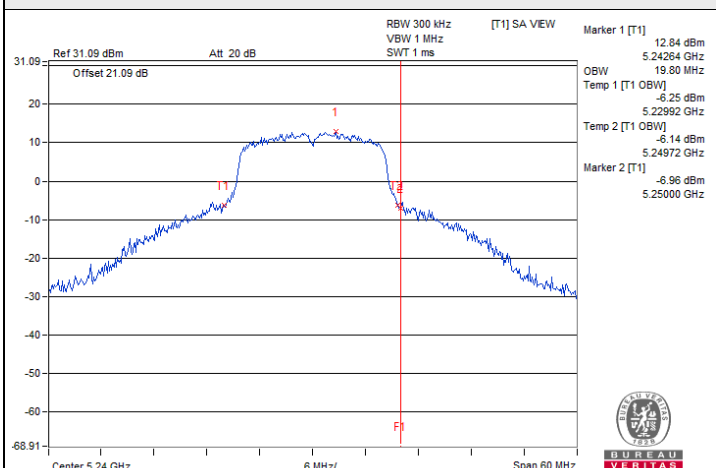


802.11ax (HE40) / Chain 1 : CH 151

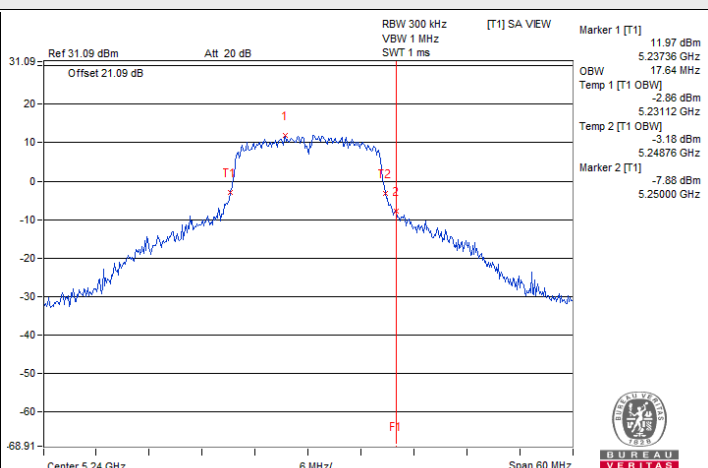


802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)

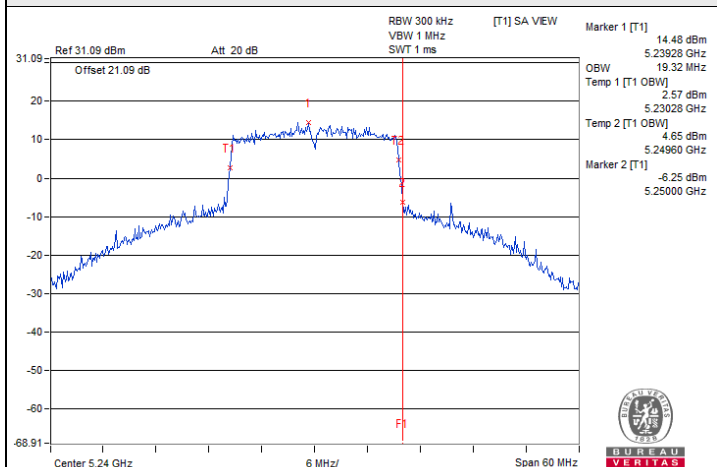
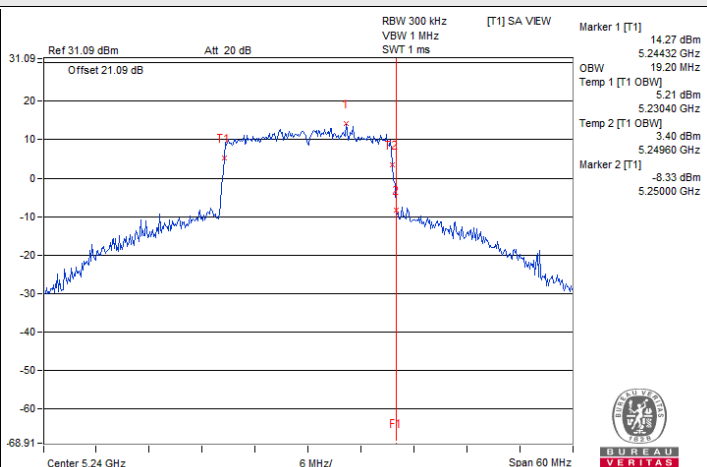
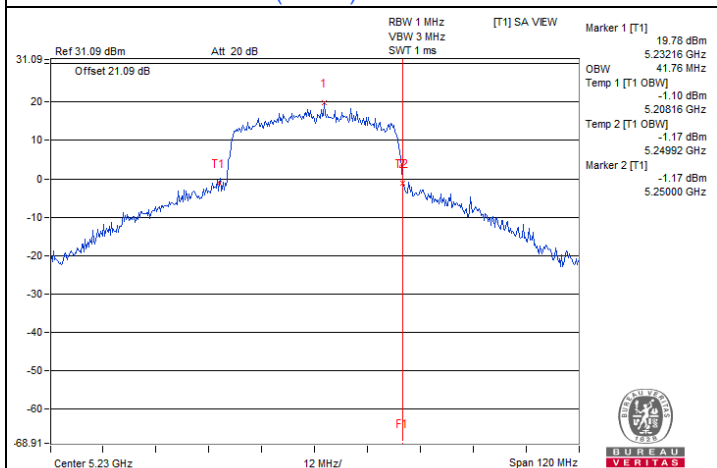
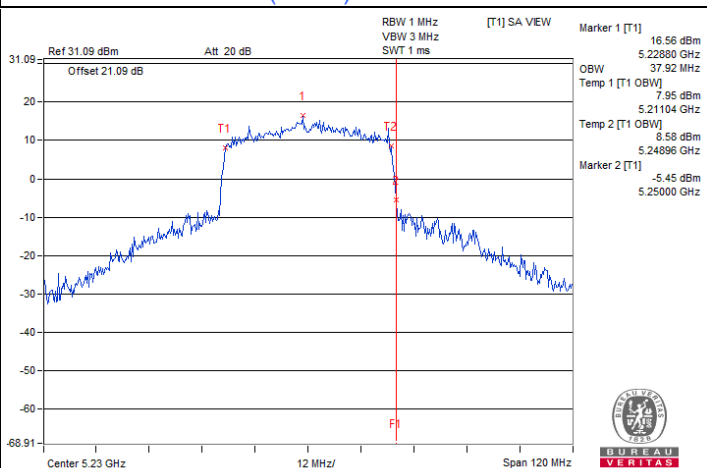
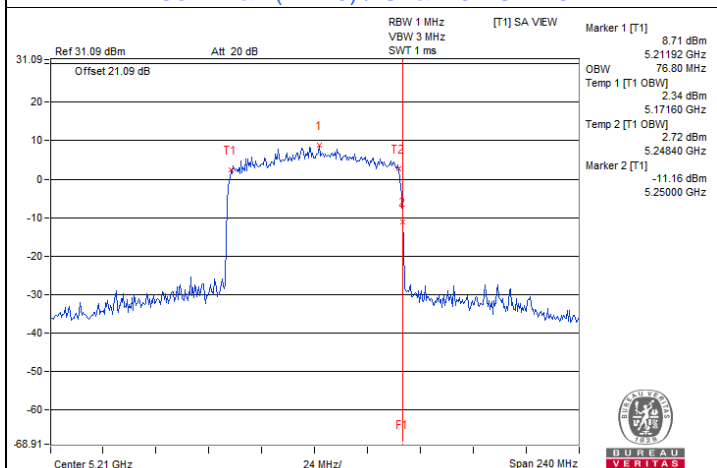
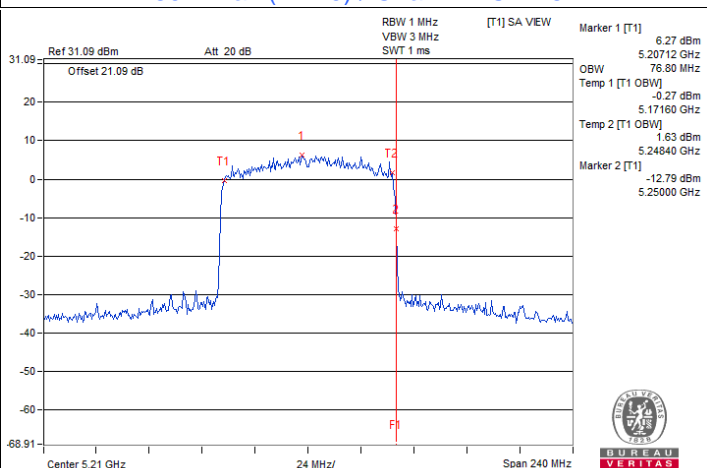


802.11a / Chain 0 : CH 48



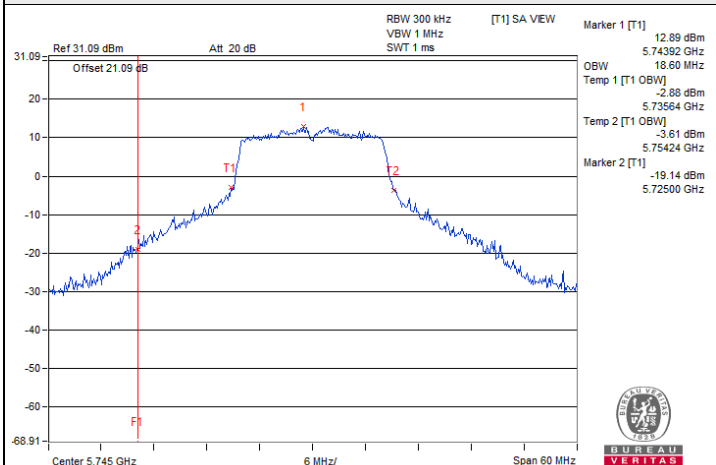
802.11a / Chain 1 : CH 48

Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)

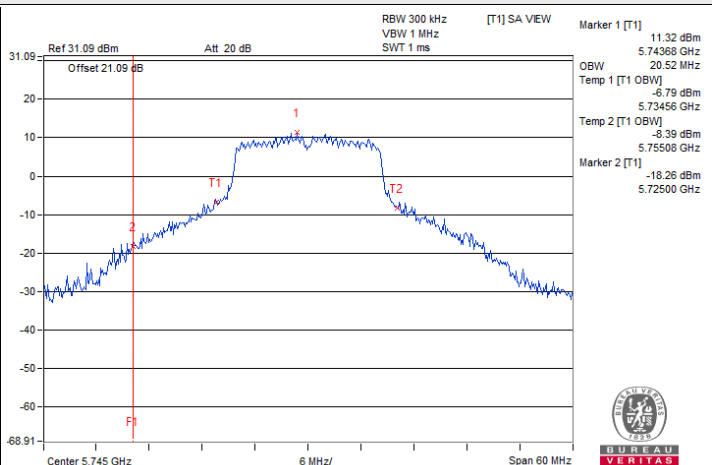
**802.11ax (HE20) / Chain 0 : CH 48****802.11ax (HE20) / Chain 1 : CH 48****802.11ax (HE40) / Chain 0 : CH 46****802.11ax (HE40) / Chain 1 : CH 46****802.11ax (HE80) / Chain 0 : CH 42****802.11ax (HE80) / Chain 1 : CH 42**



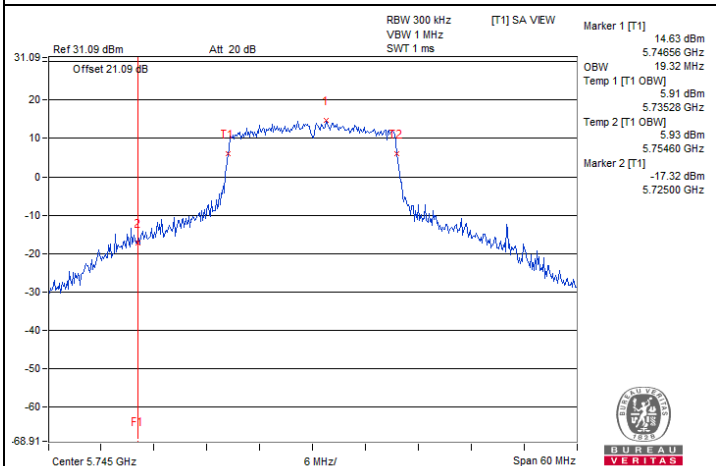
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



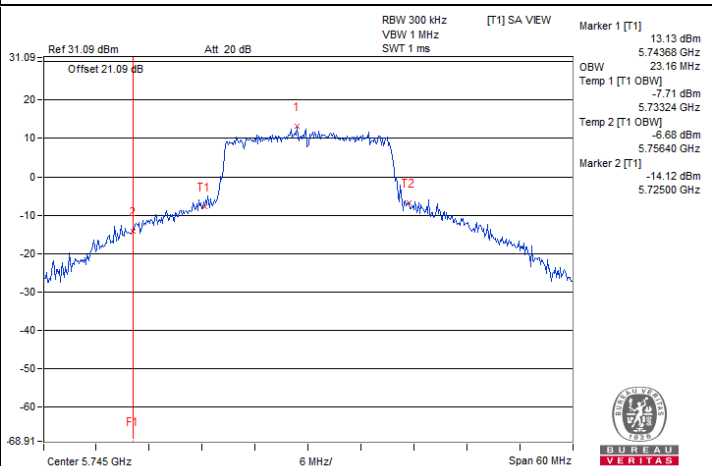
802.11a / Chain 0 : CH 149



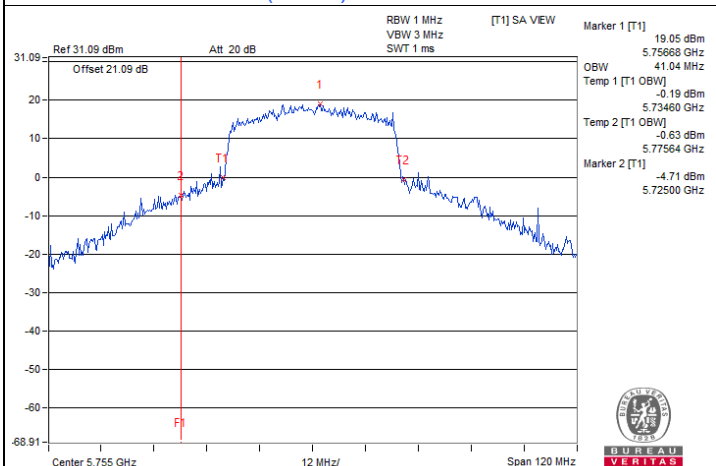
802.11a / Chain 1 : CH 149



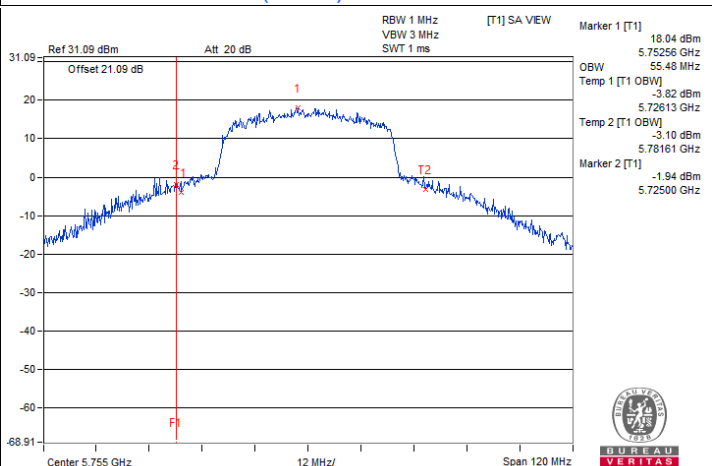
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149



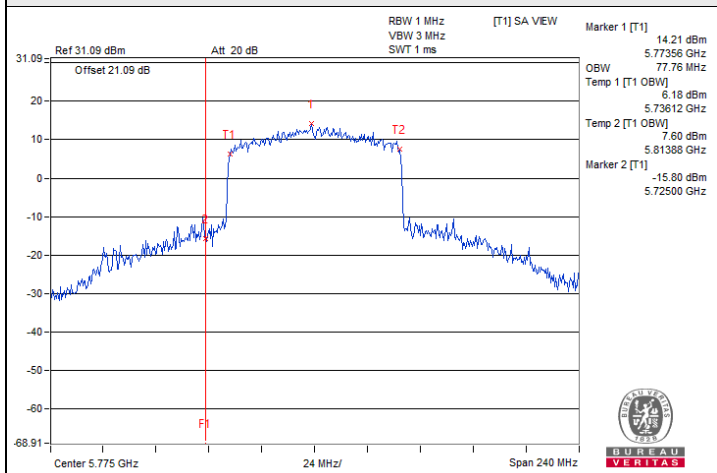
802.11ax (HE40) / Chain 0 : CH 151



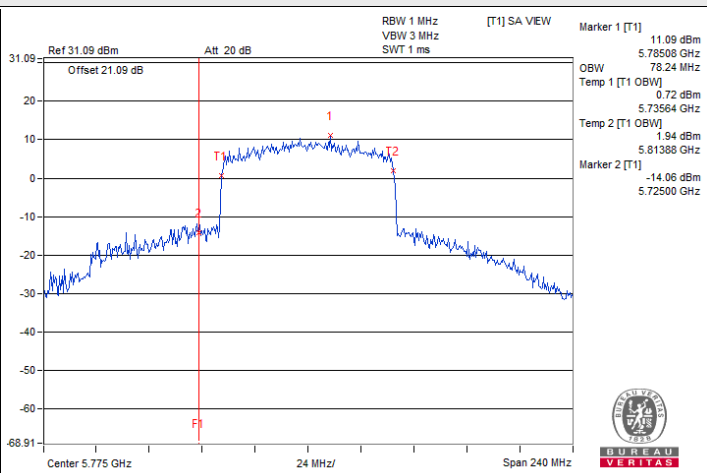
802.11ax (HE40) / Chain 1 : CH 151



Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.6 Frequency Stability

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Katina Lu
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802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
60	3.3	5180.0188	Pass	5180.018	Pass	5180.0201	Pass	5180.0191	Pass
50	3.3	5180.0088	Pass	5180.0062	Pass	5180.0045	Pass	5180.0045	Pass
40	3.3	5180.0171	Pass	5180.015	Pass	5180.0172	Pass	5180.0184	Pass
30	3.3	5179.9801	Pass	5179.9767	Pass	5179.9795	Pass	5179.9799	Pass
20	3.3	5179.9864	Pass	5179.9861	Pass	5179.9855	Pass	5179.9825	Pass
10	3.3	5179.9825	Pass	5179.9795	Pass	5179.9819	Pass	5179.9825	Pass
0	3.3	5179.9782	Pass	5179.9785	Pass	5179.98	Pass	5179.9769	Pass
-10	3.3	5179.9786	Pass	5179.9796	Pass	5179.9791	Pass	5179.982	Pass
-20	3.3	5179.991	Pass	5179.9878	Pass	5179.9897	Pass	5179.9891	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	3.795	5179.9796	Pass	5179.9805	Pass	5179.9805	Pass	5179.9794	Pass
	3.3	5179.9864	Pass	5179.9861	Pass	5179.9855	Pass	5179.9825	Pass
	2.805	5179.9923	Pass	5179.9916	Pass	5179.9923	Pass	5179.9901	Pass

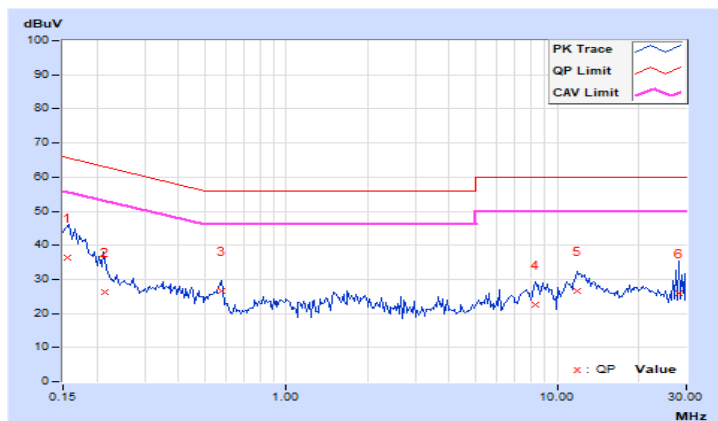
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15551	9.97	26.56	3.08	36.53	13.05	65.70	55.70	-29.17	-42.65
2	0.21452	9.97	16.23	-4.04	26.20	5.93	63.03	53.03	-36.83	-47.10
3	0.57400	9.99	16.45	2.78	26.44	12.77	56.00	46.00	-29.56	-33.23
4	8.32123	10.40	12.11	-0.57	22.51	9.83	60.00	50.00	-37.49	-40.17
5	11.84601	10.58	16.10	1.27	26.68	11.85	60.00	50.00	-33.32	-38.15
6	28.31105	11.27	14.57	3.14	25.84	14.41	60.00	50.00	-34.16	-35.59

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

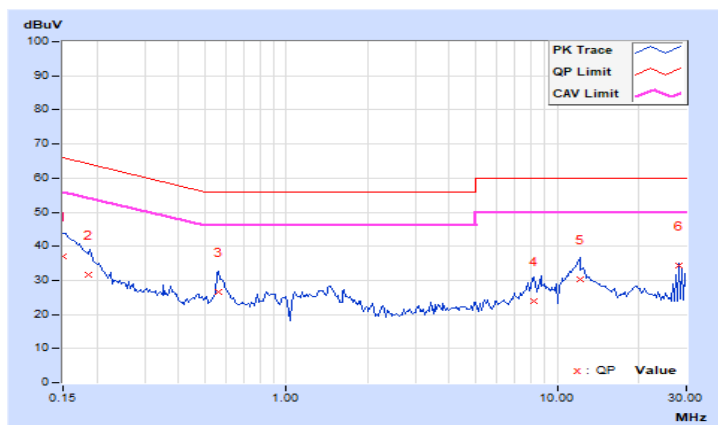


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.01	26.89	2.46	36.90	12.47	66.00	56.00	-29.10	-43.53
2	0.18564	10.02	21.79	-3.56	31.81	6.46	64.23	54.23	-32.42	-47.77
3	0.56123	10.04	16.44	2.37	26.48	12.41	56.00	46.00	-29.52	-33.59
4	8.21597	10.39	13.59	-0.27	23.98	10.12	60.00	50.00	-36.02	-39.88
5	12.16222	10.54	19.76	6.23	30.30	16.77	60.00	50.00	-29.70	-33.23
6	28.26330	10.93	23.53	12.70	34.46	23.63	60.00	50.00	-25.54	-26.37

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.8 Unwanted Emissions below 1 GHz

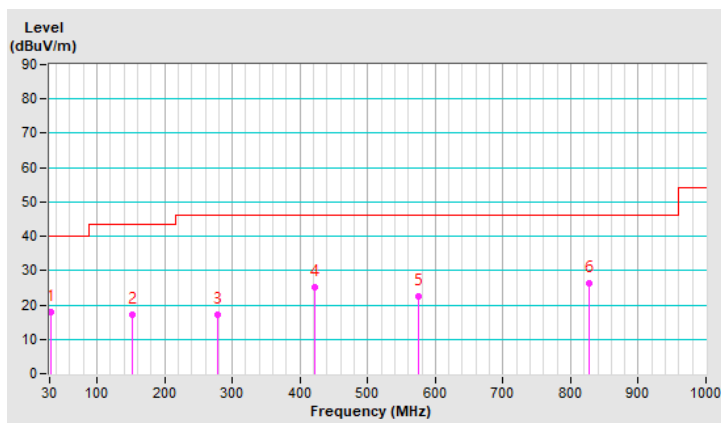
RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.36	18.0 QP	40.0	-22.0	1.50 H	169	32.0	-14.0
2	152.39	17.0 QP	43.5	-26.5	2.50 H	152	30.1	-13.1
3	278.69	17.1 QP	46.0	-28.9	1.50 H	59	30.2	-13.1
4	420.98	25.1 QP	46.0	-20.9	2.00 H	294	34.4	-9.3
5	575.22	22.4 QP	46.0	-23.6	1.50 H	274	28.8	-6.4
6	827.88	26.3 QP	46.0	-19.7	1.50 H	163	28.5	-2.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

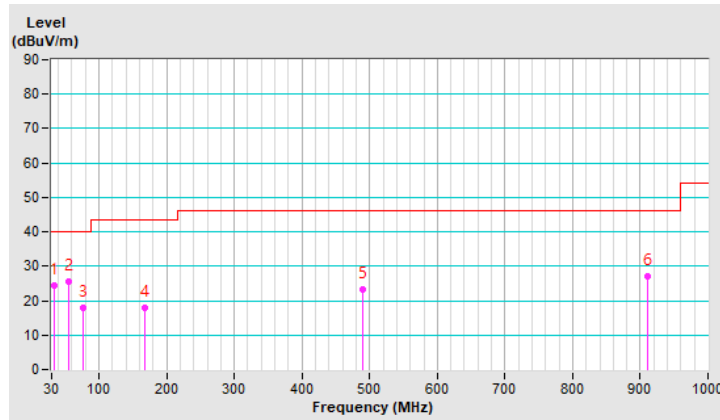


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.10	24.3 QP	40.0	-15.7	1.00 V	295	38.4	-14.1
2	54.35	25.4 QP	40.0	-14.6	1.50 V	347	38.7	-13.3
3	77.24	17.9 QP	40.0	-22.1	1.00 V	289	35.3	-17.4
4	168.68	17.9 QP	43.5	-25.6	1.50 V	331	31.4	-13.5
5	490.34	23.3 QP	46.0	-22.7	1.00 V	165	31.2	-7.9
6	910.21	26.9 QP	46.0	-19.1	1.50 V	61	27.8	-0.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



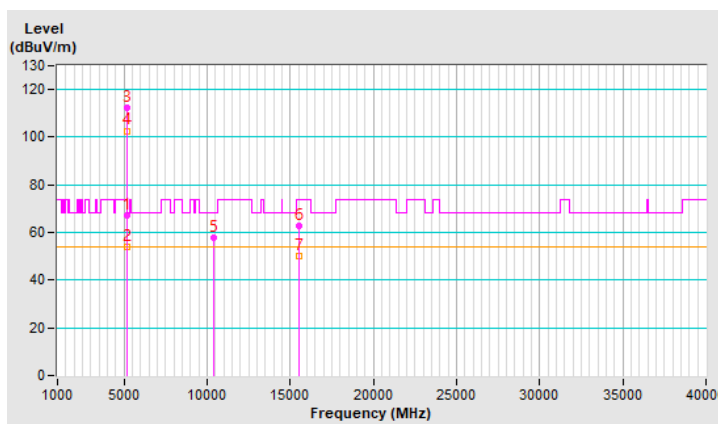
7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.2 PK	74.0	-6.8	3.37 H	180	61.6	5.6
2	5150.00	53.8 AV	54.0	-0.2	3.37 H	180	48.2	5.6
3	*5180.00	112.1 PK			3.37 H	180	106.5	5.6
4	*5180.00	102.7 AV			3.37 H	180	97.1	5.6
5	#10360.00	57.6 PK	68.2	-10.6	1.15 H	313	42.1	15.5
6	15540.00	62.6 PK	74.0	-11.4	1.26 H	58	46.2	16.4
7	15540.00	50.1 AV	54.0	-3.9	1.26 H	58	33.7	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

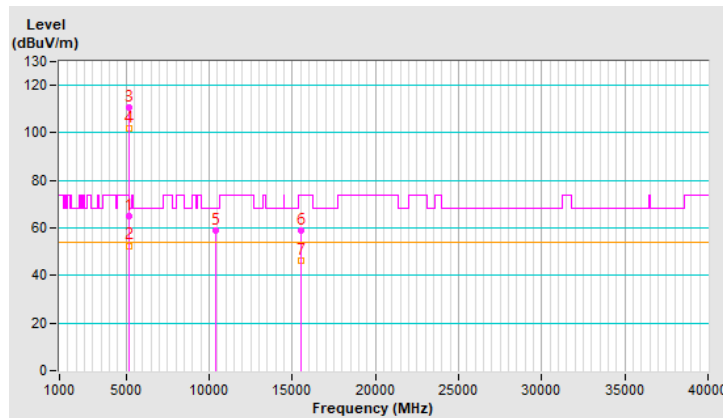


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.8 PK	74.0	-9.2	3.86 V	263	59.2	5.6
2	5150.00	52.6 AV	54.0	-1.4	3.86 V	263	47.0	5.6
3	*5180.00	110.5 PK			3.86 V	263	104.9	5.6
4	*5180.00	101.7 AV			3.86 V	263	96.1	5.6
5	#10360.00	59.0 PK	68.2	-9.2	1.18 V	307	43.5	15.5
6	15540.00	58.8 PK	74.0	-15.2	1.10 V	227	42.4	16.4
7	15540.00	46.5 AV	54.0	-7.5	1.10 V	227	30.1	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

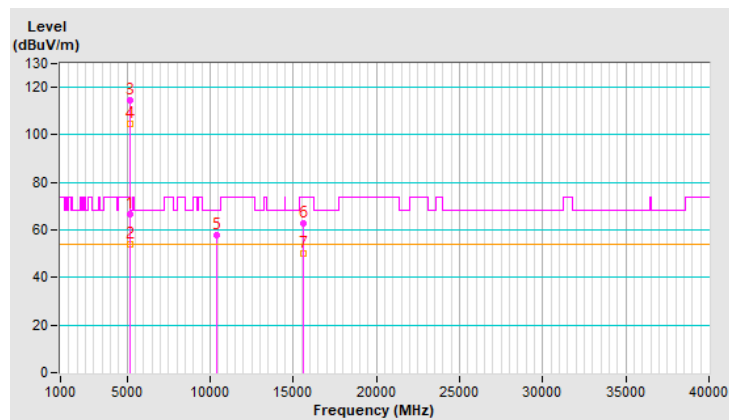


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	1.61 H	3	61.0	5.6
2	5150.00	53.8 AV	54.0	-0.2	1.61 H	3	48.2	5.6
3	*5200.00	114.7 PK			1.61 H	3	109.2	5.5
4	*5200.00	104.8 AV			1.61 H	3	99.3	5.5
5	#10400.00	57.6 PK	68.2	-10.6	1.11 H	327	42.0	15.6
6	15600.00	62.6 PK	74.0	-11.4	1.24 H	59	45.9	16.7
7	15600.00	50.0 AV	54.0	-4.0	1.24 H	59	33.3	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

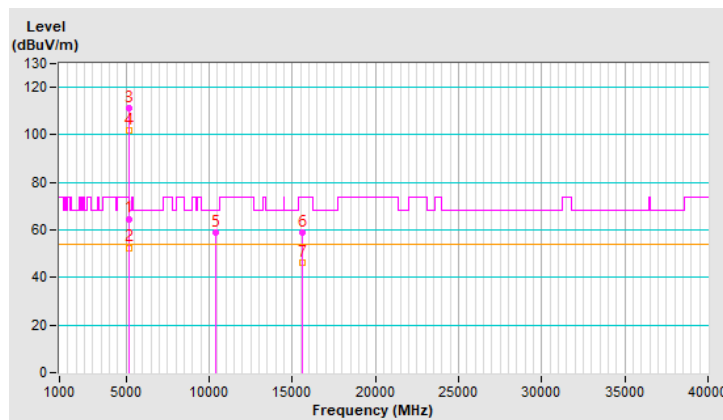


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.7 PK	74.0	-9.3	3.99 V	72	59.1	5.6
2	5150.00	52.6 AV	54.0	-1.4	3.99 V	72	47.0	5.6
3	*5200.00	111.0 PK			3.99 V	72	105.5	5.5
4	*5200.00	102.0 AV			3.99 V	72	96.5	5.5
5	#10400.00	58.8 PK	68.2	-9.4	1.14 V	296	43.2	15.6
6	15600.00	59.1 PK	74.0	-14.9	1.08 V	205	42.4	16.7
7	15600.00	46.5 AV	54.0	-7.5	1.08 V	205	29.8	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

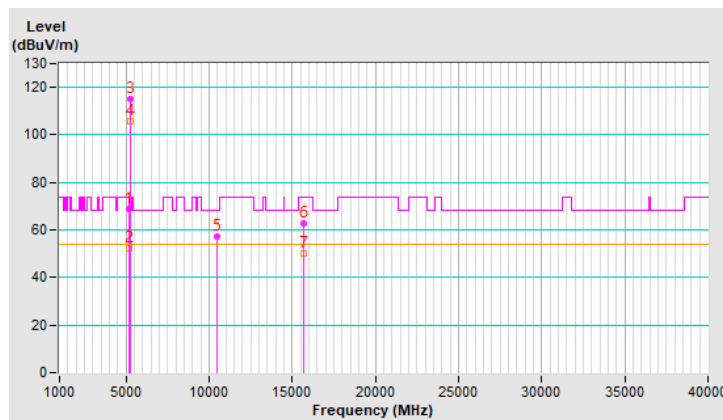


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.0 PK	74.0	-5.0	3.33 H	188	63.4	5.6
2	5150.00	52.3 AV	54.0	-1.7	3.33 H	188	46.7	5.6
3	*5240.00	115.0 PK			3.33 H	188	109.8	5.2
4	*5240.00	105.6 AV			3.33 H	188	100.4	5.2
5	#10480.00	57.5 PK	68.2	-10.7	1.14 H	321	41.7	15.8
6	15720.00	62.7 PK	74.0	-11.3	1.33 H	81	46.1	16.6
7	15720.00	50.0 AV	54.0	-4.0	1.33 H	81	33.4	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

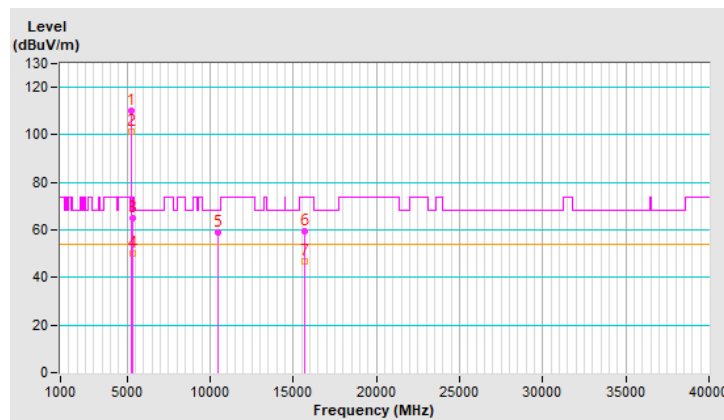


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	109.9 PK			4.00 V	64	104.7	5.2
2	*5240.00	101.3 AV			4.00 V	64	96.1	5.2
3	5350.00	65.2 PK	74.0	-8.8	4.00 V	64	59.7	5.5
4	5350.00	50.3 AV	54.0	-3.7	4.00 V	64	44.8	5.5
5	#10480.00	58.9 PK	68.2	-9.3	1.20 V	298	43.1	15.8
6	15720.00	59.3 PK	74.0	-14.7	1.15 V	236	42.7	16.6
7	15720.00	46.9 AV	54.0	-7.1	1.15 V	236	30.3	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

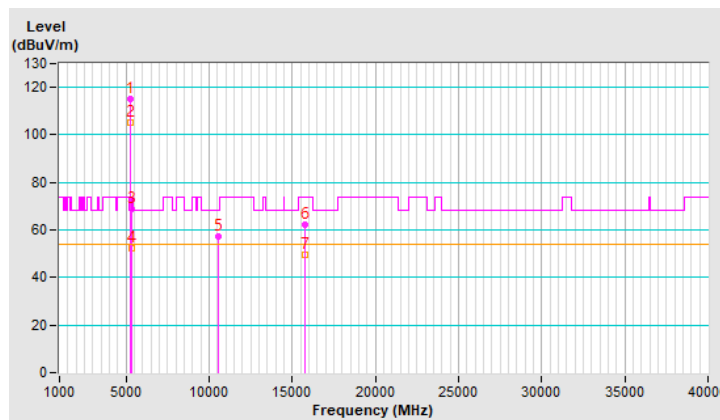


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5260.00	115.0 PK			3.40 H	177	109.8	5.2
2	*5260.00	105.4 AV			3.40 H	177	100.2	5.2
3	5350.00	69.0 PK	74.0	-5.0	3.40 H	177	63.5	5.5
4	5350.00	52.5 AV	54.0	-1.5	3.40 H	177	47.0	5.5
5	#10520.00	57.4 PK	68.2	-10.8	1.16 H	331	41.4	16.0
6	15780.00	62.4 PK	74.0	-11.6	1.27 H	74	45.7	16.7
7	15780.00	49.8 AV	54.0	-4.2	1.27 H	74	33.1	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

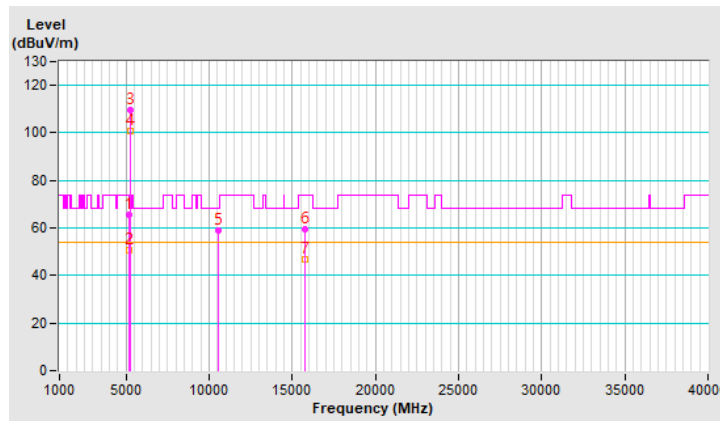


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	3.95 V	68	59.8	5.6
2	5150.00	50.5 AV	54.0	-3.5	3.95 V	68	44.9	5.6
3	*5260.00	109.7 PK			3.95 V	68	104.5	5.2
4	*5260.00	101.0 AV			3.95 V	68	95.8	5.2
5	#10520.00	58.8 PK	68.2	-9.4	1.15 V	299	42.8	16.0
6	15780.00	59.5 PK	74.0	-14.5	1.03 V	212	42.8	16.7
7	15780.00	46.9 AV	54.0	-7.1	1.03 V	212	30.2	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

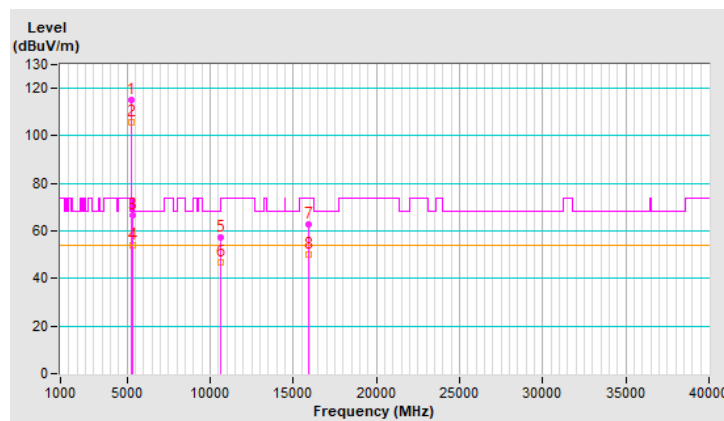


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.0 PK			1.60 H	1	109.8	5.2
2	*5300.00	105.7 AV			1.60 H	1	100.5	5.2
3	5350.00	66.4 PK	74.0	-7.6	1.60 H	1	60.9	5.5
4	5350.00	53.8 AV	54.0	-0.2	1.60 H	1	48.3	5.5
5	10600.00	57.3 PK	74.0	-16.7	1.12 H	315	41.5	15.8
6	10600.00	46.6 AV	54.0	-7.4	1.12 H	315	30.8	15.8
7	15900.00	62.7 PK	74.0	-11.3	1.32 H	82	46.3	16.4
8	15900.00	50.1 AV	54.0	-3.9	1.32 H	82	33.7	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

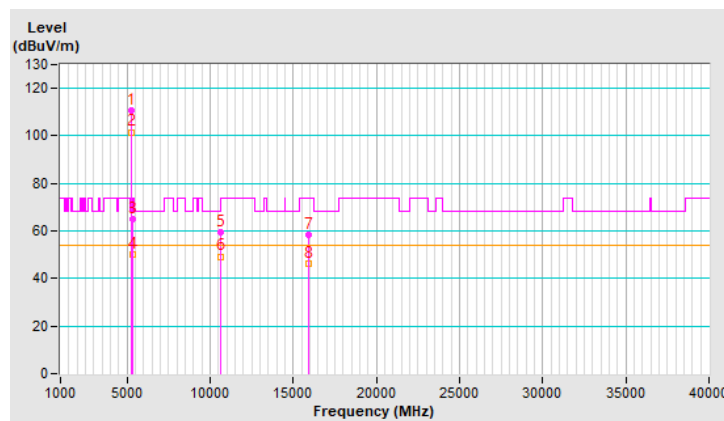


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	110.5 PK			3.96 V	55	105.3	5.2
2	*5300.00	101.6 AV			3.96 V	55	96.4	5.2
3	5350.00	65.1 PK	74.0	-8.9	3.96 V	55	59.6	5.5
4	5350.00	50.2 AV	54.0	-3.8	3.96 V	55	44.7	5.5
5	10600.00	59.6 PK	74.0	-14.4	1.20 V	314	43.8	15.8
6	10600.00	49.3 AV	54.0	-4.7	1.20 V	314	33.5	15.8
7	15900.00	58.5 PK	74.0	-15.5	1.13 V	200	42.1	16.4
8	15900.00	46.2 AV	54.0	-7.8	1.13 V	200	29.8	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

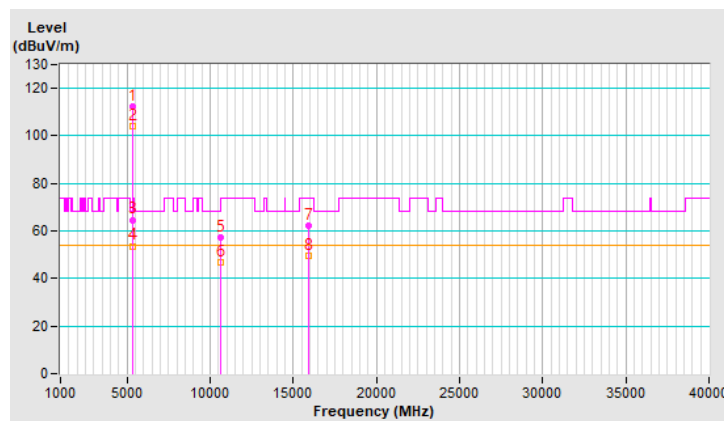


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.6 PK			2.18 H	179	107.3	5.3
2	*5320.00	104.1 AV			2.18 H	179	98.8	5.3
3	5350.00	64.7 PK	74.0	-9.3	2.18 H	179	59.2	5.5
4	5350.00	53.7 AV	54.0	-0.3	2.18 H	179	48.2	5.5
5	10640.00	57.5 PK	74.0	-16.5	1.13 H	317	41.5	16.0
6	10640.00	46.8 AV	54.0	-7.2	1.13 H	317	30.8	16.0
7	15960.00	62.2 PK	74.0	-11.8	1.29 H	71	45.3	16.9
8	15960.00	49.8 AV	54.0	-4.2	1.29 H	71	32.9	16.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

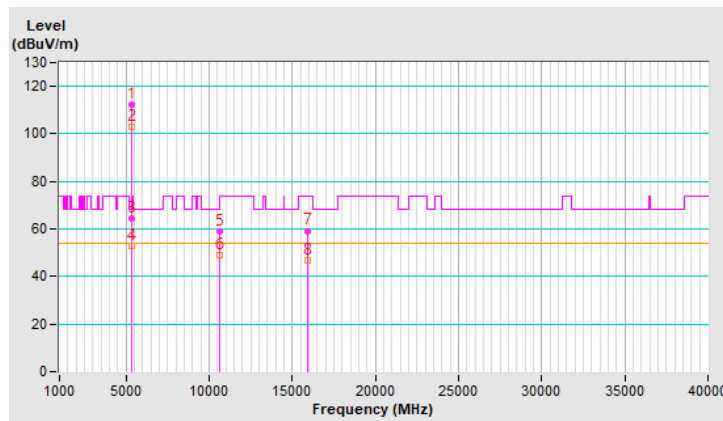


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.1 PK			3.86 V	254	106.8	5.3
2	*5320.00	103.1 AV			3.86 V	254	97.8	5.3
3	5350.00	64.3 PK	74.0	-9.7	3.86 V	254	58.8	5.5
4	5350.00	53.0 AV	54.0	-1.0	3.86 V	254	47.5	5.5
5	10640.00	59.0 PK	74.0	-15.0	1.20 V	306	43.0	16.0
6	10640.00	48.8 AV	54.0	-5.2	1.20 V	306	32.8	16.0
7	15960.00	59.2 PK	74.0	-14.8	1.08 V	216	42.3	16.9
8	15960.00	46.6 AV	54.0	-7.4	1.08 V	216	29.7	16.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

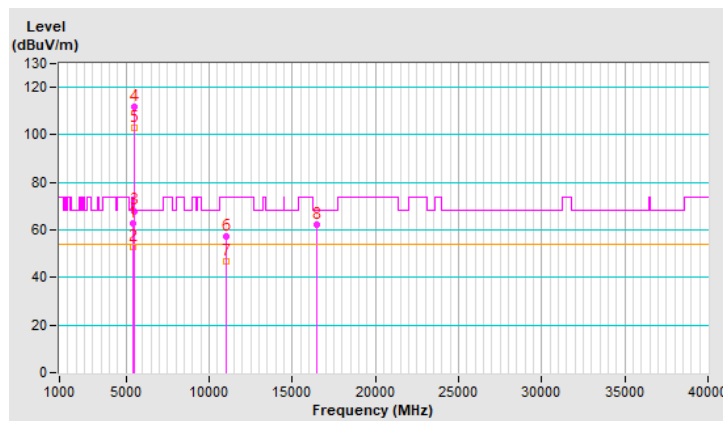


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5458.91	62.6 PK	74.0	-11.4	2.17 H	184	57.0	5.6
2	5458.91	53.1 AV	54.0	-0.9	2.17 H	184	47.5	5.6
3	#5464.31	68.0 PK	68.2	-0.2	2.17 H	184	62.4	5.6
4	*5500.00	111.8 PK			2.17 H	184	106.1	5.7
5	*5500.00	103.0 AV			2.17 H	184	97.3	5.7
6	11000.00	57.3 PK	74.0	-16.7	1.18 H	322	40.7	16.6
7	11000.00	46.8 AV	54.0	-7.2	1.18 H	322	30.2	16.6
8	#16500.00	62.2 PK	68.2	-6.0	1.34 H	86	43.4	18.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

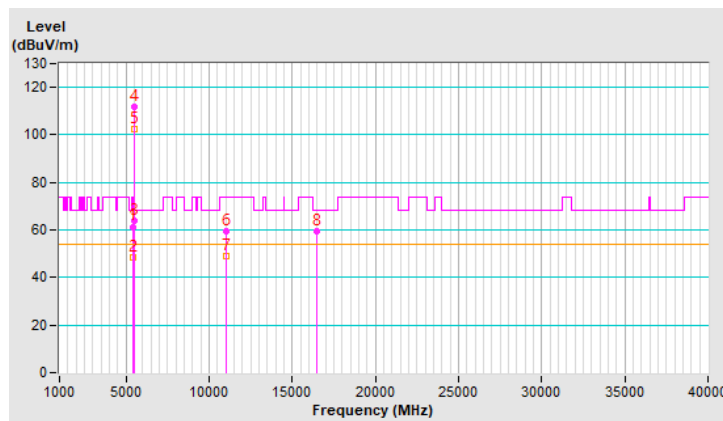


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5456.71	61.4 PK	74.0	-12.6	3.87 V	67	55.8	5.6
2	5456.71	48.5 AV	54.0	-5.5	3.87 V	67	42.9	5.6
3	#5467.55	64.0 PK	68.2	-4.2	3.87 V	67	58.4	5.6
4	*5500.00	111.6 PK			3.87 V	67	105.9	5.7
5	*5500.00	102.6 AV			3.87 V	67	96.9	5.7
6	11000.00	59.4 PK	74.0	-14.6	1.21 V	306	42.8	16.6
7	11000.00	49.0 AV	54.0	-5.0	1.21 V	306	32.4	16.6
8	#16500.00	59.6 PK	68.2	-8.6	1.10 V	200	40.8	18.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

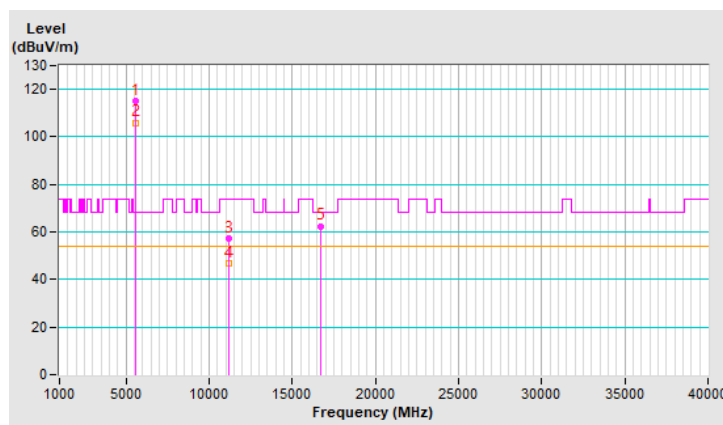


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	115.3 PK			3.33 H	185	109.7	5.6
2	*5580.00	106.0 AV			3.33 H	185	100.4	5.6
3	11160.00	57.4 PK	74.0	-16.6	1.12 H	331	41.4	16.0
4	11160.00	46.6 AV	54.0	-7.4	1.12 H	331	30.6	16.0
5	#16740.00	62.5 PK	68.2	-5.7	1.32 H	69	41.6	20.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

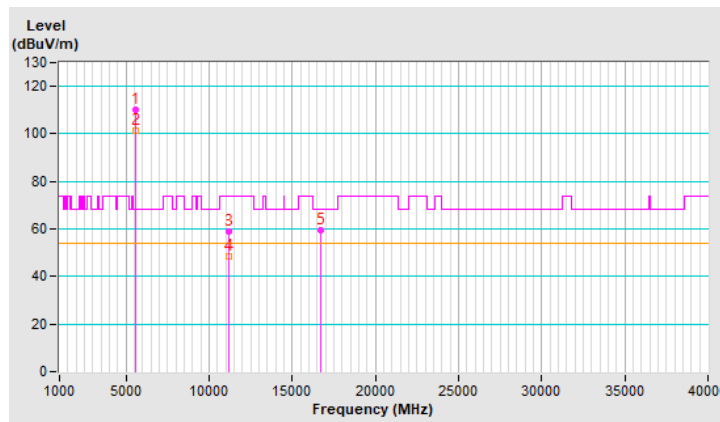


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	110.3 PK			3.95 V	71	104.7	5.6
2	*5580.00	101.2 AV			3.95 V	71	95.6	5.6
3	11160.00	58.9 PK	74.0	-15.1	1.15 V	290	42.9	16.0
4	11160.00	48.5 AV	54.0	-5.5	1.15 V	290	32.5	16.0
5	#16740.00	59.5 PK	68.2	-8.7	1.02 V	205	38.6	20.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

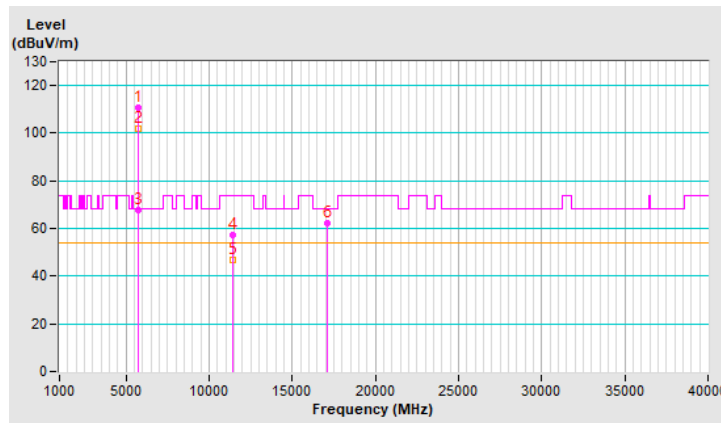


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.7 PK			1.52 H	183	105.0	5.7
2	*5700.00	101.7 AV			1.52 H	183	96.0	5.7
3	#5725.00	67.9 PK	68.2	-0.3	1.52 H	183	62.1	5.8
4	11400.00	57.4 PK	74.0	-16.6	1.08 H	304	40.7	16.7
5	11400.00	46.9 AV	54.0	-7.1	1.08 H	304	30.2	16.7
6	#17100.00	62.1 PK	68.2	-6.1	1.28 H	79	40.5	21.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

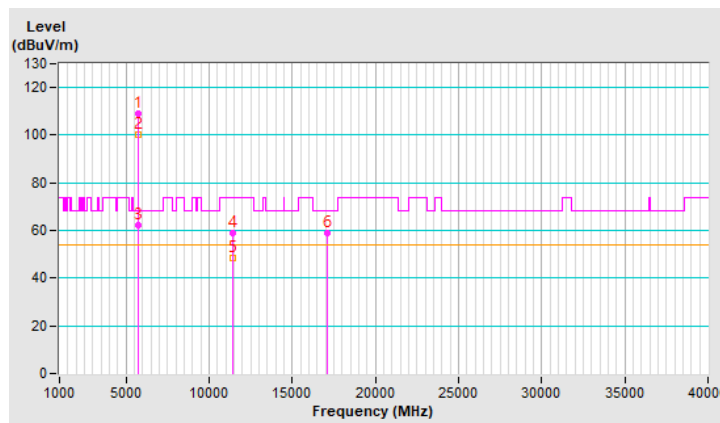


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.3 PK			3.99 V	67	103.6	5.7
2	*5700.00	100.1 AV			3.99 V	67	94.4	5.7
3	#5725.00	62.2 PK	68.2	-6.0	3.99 V	67	56.4	5.8
4	11400.00	58.8 PK	74.0	-15.2	1.17 V	314	42.1	16.7
5	11400.00	48.6 AV	54.0	-5.4	1.17 V	314	31.9	16.7
6	#17100.00	58.9 PK	68.2	-9.3	1.12 V	230	37.3	21.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

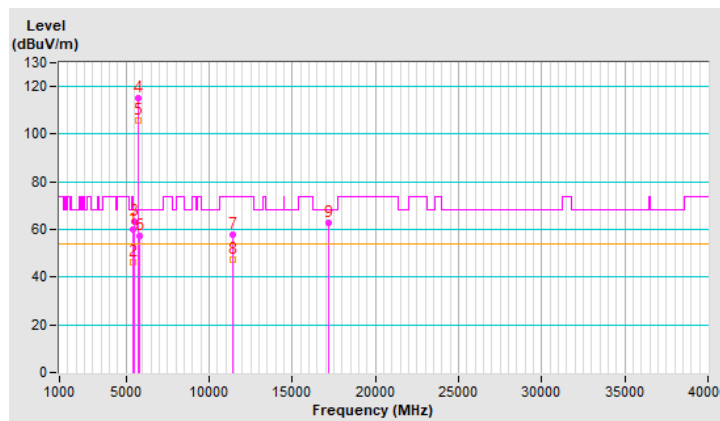


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	3.32 H	168	54.6	5.6
2	5460.00	46.3 AV	54.0	-7.7	3.32 H	168	40.7	5.6
3	#5470.00	63.1 PK	68.2	-5.1	3.32 H	168	57.5	5.6
4	*5720.00	115.2 PK			3.32 H	168	109.4	5.8
5	*5720.00	105.8 AV			3.32 H	168	100.0	5.8
6	#5850.00	57.3 PK	68.2	-10.9	3.32 H	168	50.8	6.5
7	11440.00	57.9 PK	74.0	-16.1	1.12 H	331	41.1	16.8
8	11440.00	47.3 AV	54.0	-6.7	1.12 H	331	30.5	16.8
9	#17160.00	62.7 PK	68.2	-5.5	1.26 H	65	41.4	21.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

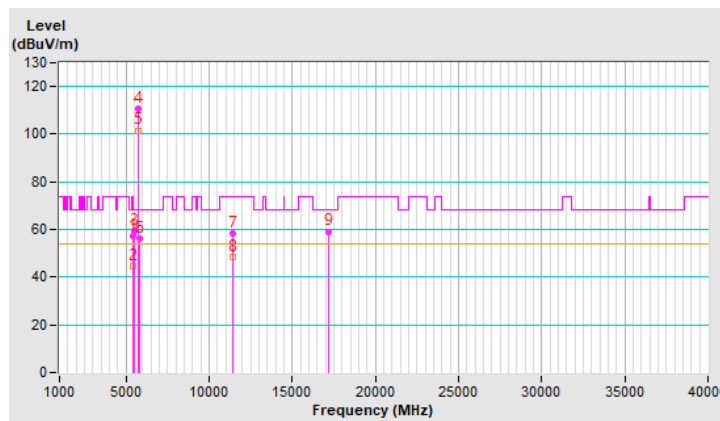


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.2 PK	74.0	-16.8	3.99 V	65	51.6	5.6
2	5460.00	44.5 AV	54.0	-9.5	3.99 V	65	38.9	5.6
3	#5470.00	59.3 PK	68.2	-8.9	3.99 V	65	53.7	5.6
4	*5720.00	110.7 PK			3.99 V	65	104.9	5.8
5	*5720.00	101.6 AV			3.99 V	65	95.8	5.8
6	#5850.00	56.4 PK	68.2	-11.8	3.99 V	65	49.9	6.5
7	11440.00	58.5 PK	74.0	-15.5	1.20 V	291	41.7	16.8
8	11440.00	48.4 AV	54.0	-5.6	1.20 V	291	31.6	16.8
9	#17160.00	59.2 PK	68.2	-9.0	1.10 V	221	37.9	21.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

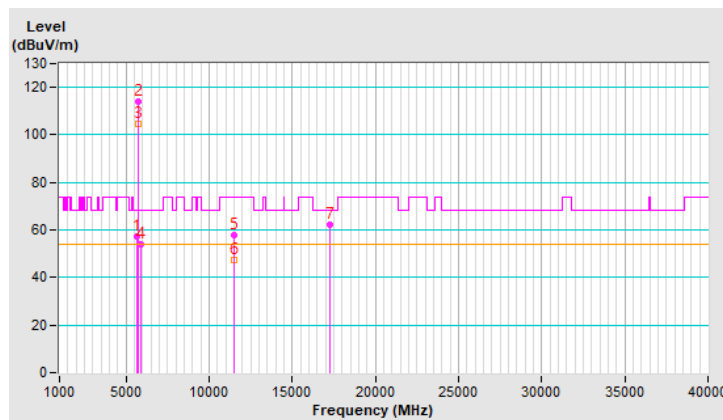


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5637.80	57.1 PK	68.2	-11.1	1.37 H	3	51.3	5.8
2	*5745.00	114.1 PK			1.37 H	3	108.3	5.8
3	*5745.00	104.6 AV			1.37 H	3	98.8	5.8
4	#5928.63	53.8 PK	68.2	-14.4	1.37 H	3	47.5	6.3
5	11490.00	57.7 PK	74.0	-16.3	1.17 H	325	40.8	16.9
6	11490.00	47.2 AV	54.0	-6.8	1.17 H	325	30.3	16.9
7	#17235.00	62.1 PK	68.2	-6.1	1.31 H	57	41.0	21.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

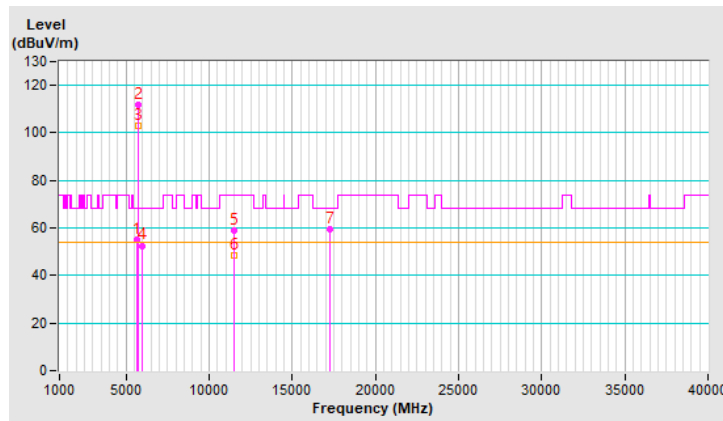


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.04	55.2 PK	68.2	-13.0	3.85 V	242	49.4	5.8
2	*5745.00	111.8 PK			3.85 V	242	106.0	5.8
3	*5745.00	102.8 AV			3.85 V	242	97.0	5.8
4	#6001.69	52.6 PK	68.2	-15.6	3.85 V	242	46.2	6.4
5	11490.00	58.7 PK	74.0	-15.3	1.22 V	295	41.8	16.9
6	11490.00	48.6 AV	54.0	-5.4	1.22 V	295	31.7	16.9
7	#17235.00	59.5 PK	68.2	-8.7	1.13 V	205	38.4	21.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

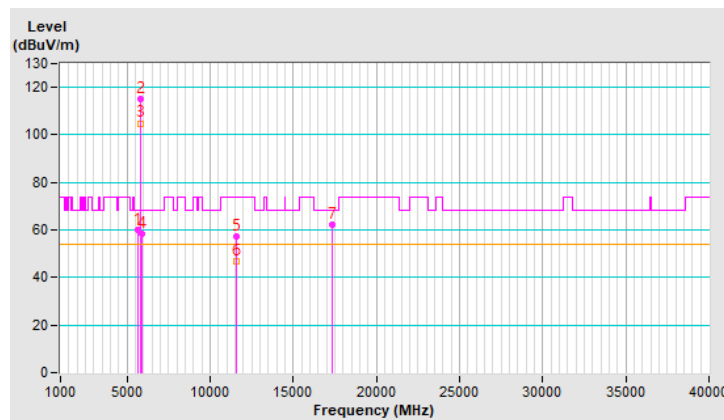


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.62	60.2 PK	68.2	-8.0	1.53 H	359	54.3	5.9
2	*5785.00	115.2 PK			1.53 H	359	109.0	6.2
3	*5785.00	104.9 AV			1.53 H	359	98.7	6.2
4	#5927.30	58.6 PK	68.2	-9.6	1.53 H	359	52.3	6.3
5	11570.00	57.4 PK	74.0	-16.6	1.19 H	309	40.7	16.7
6	11570.00	46.7 AV	54.0	-7.3	1.19 H	309	30.0	16.7
7	#17355.00	62.3 PK	68.2	-5.9	1.31 H	79	40.7	21.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

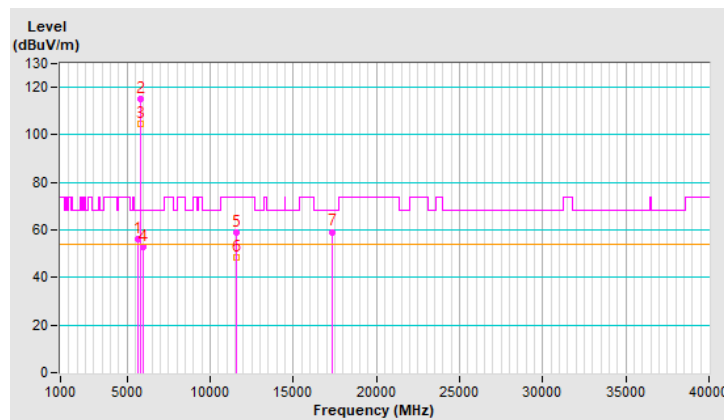


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.36	56.1 PK	68.2	-12.1	3.89 V	245	50.2	5.9
2	*5785.00	114.9 PK			3.89 V	245	108.7	6.2
3	*5785.00	104.7 AV			3.89 V	245	98.5	6.2
4	#5951.49	52.8 PK	68.2	-15.4	3.89 V	245	46.5	6.3
5	11570.00	58.9 PK	74.0	-15.1	1.16 V	322	42.2	16.7
6	11570.00	48.7 AV	54.0	-5.3	1.16 V	322	32.0	16.7
7	#17355.00	59.2 PK	68.2	-9.0	1.08 V	212	37.6	21.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

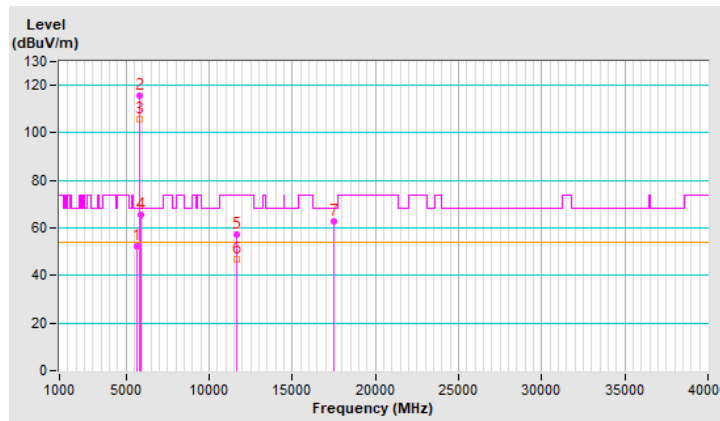


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.82	52.5 PK	68.2	-15.7	1.39 H	354	46.7	5.8
2	*5825.00	115.6 PK			1.39 H	354	109.2	6.4
3	*5825.00	105.6 AV			1.39 H	354	99.2	6.4
4	#5926.35	65.6 PK	68.2	-2.6	1.39 H	354	59.3	6.3
5	11650.00	57.1 PK	74.0	-16.9	1.14 H	316	40.6	16.5
6	11650.00	46.6 AV	54.0	-7.4	1.14 H	316	30.1	16.5
7	#17475.00	62.8 PK	68.2	-5.4	1.27 H	67	40.8	22.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

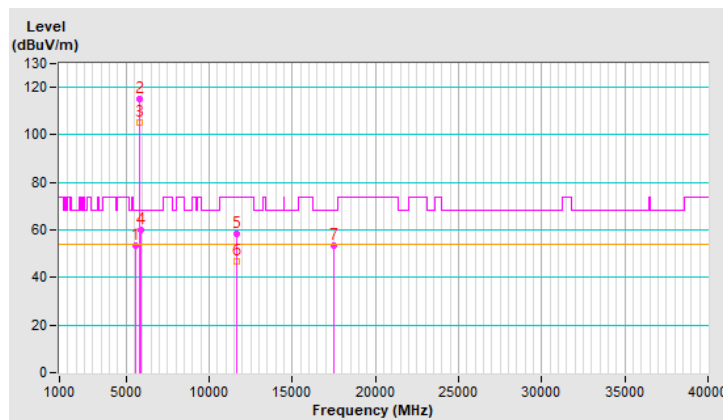


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5581.54	53.2 PK	68.2	-15.0	3.90 V	70	47.6	5.6
2	*5825.00	115.0 PK			3.90 V	70	108.6	6.4
3	*5825.00	105.0 AV			3.90 V	70	98.6	6.4
4	#5926.88	59.8 PK	68.2	-8.4	3.90 V	70	53.5	6.3
5	11650.00	58.3 PK	74.0	-15.7	1.21 V	78	41.8	16.5
6	11650.00	47.0 AV	54.0	-7.0	1.21 V	78	30.5	16.5
7	#17475.00	53.5 PK	68.2	-14.7	1.83 V	184	31.5	22.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

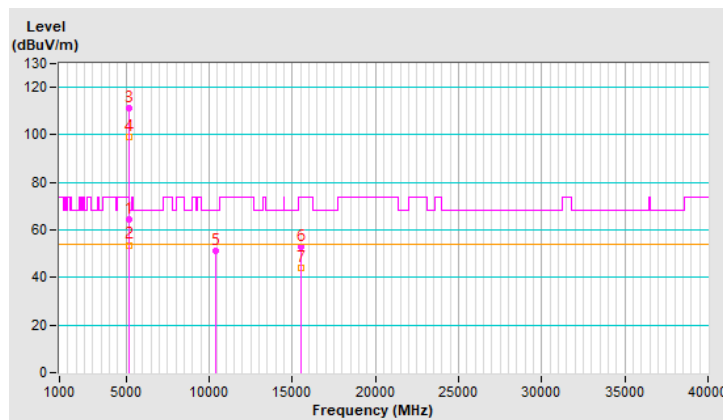


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.4 PK	74.0	-9.6	1.49 H	350	58.8	5.6
2	5150.00	53.7 AV	54.0	-0.3	1.49 H	350	48.1	5.6
3	*5180.00	111.0 PK			1.49 H	350	105.4	5.6
4	*5180.00	99.3 AV			1.49 H	350	93.7	5.6
5	#10360.00	51.3 PK	68.2	-16.9	1.20 H	321	35.8	15.5
6	15540.00	53.0 PK	74.0	-21.0	1.32 H	77	36.6	16.4
7	15540.00	44.0 AV	54.0	-10.0	1.32 H	77	27.6	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

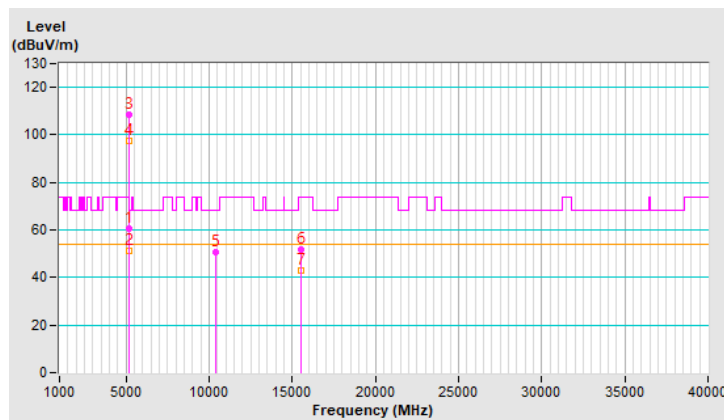


RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	3.91 V	257	55.1	5.6
2	5150.00	51.4 AV	54.0	-2.6	3.91 V	257	45.8	5.6
3	*5180.00	108.7 PK			3.91 V	257	103.1	5.6
4	*5180.00	97.5 AV			3.91 V	257	91.9	5.6
5	#10360.00	50.6 PK	68.2	-17.6	1.17 V	327	35.1	15.5
6	15540.00	51.9 PK	74.0	-22.1	1.20 V	173	35.5	16.4
7	15540.00	43.0 AV	54.0	-11.0	1.20 V	173	26.6	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

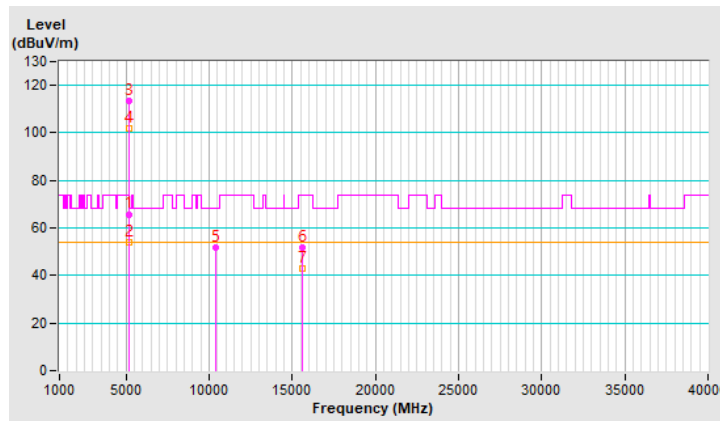


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.70 H	357	60.2	5.6
2	5150.00	53.9 AV	54.0	-0.1	1.70 H	357	48.3	5.6
3	*5200.00	113.5 PK			1.70 H	357	108.0	5.5
4	*5200.00	101.8 AV			1.70 H	357	96.3	5.5
5	#10400.00	51.9 PK	68.2	-16.3	1.13 H	327	36.3	15.6
6	15600.00	51.7 PK	74.0	-22.3	1.29 H	90	35.0	16.7
7	15600.00	43.1 AV	54.0	-10.9	1.29 H	90	26.4	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

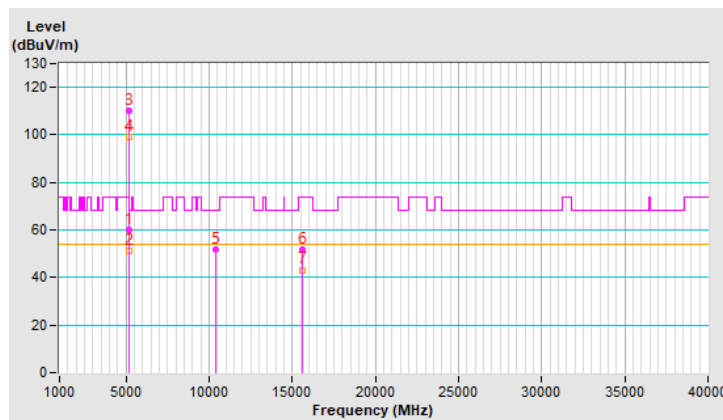


RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.8 PK	74.0	-14.2	3.95 V	60	54.2	5.6
2	5150.00	51.0 AV	54.0	-3.0	3.95 V	60	45.4	5.6
3	*5200.00	110.0 PK			3.95 V	60	104.5	5.5
4	*5200.00	99.0 AV			3.95 V	60	93.5	5.5
5	#10400.00	51.7 PK	68.2	-16.5	1.24 V	320	36.1	15.6
6	15600.00	52.0 PK	74.0	-22.0	1.13 V	184	35.3	16.7
7	15600.00	43.2 AV	54.0	-10.8	1.13 V	184	26.5	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

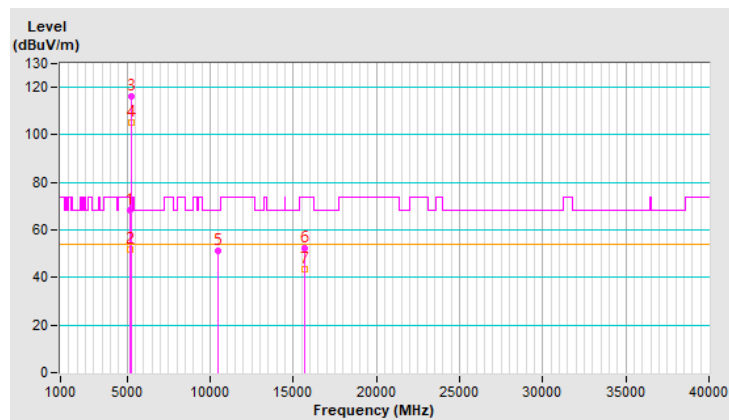


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.3 PK	74.0	-5.7	1.49 H	350	62.7	5.6
2	5150.00	51.9 AV	54.0	-2.1	1.49 H	350	46.3	5.6
3	*5240.00	116.3 PK			1.49 H	350	111.1	5.2
4	*5240.00	105.1 AV			1.49 H	350	99.9	5.2
5	#10480.00	51.1 PK	68.2	-17.1	1.15 H	315	35.3	15.8
6	15720.00	52.5 PK	74.0	-21.5	1.31 H	68	35.9	16.6
7	15720.00	43.6 AV	54.0	-10.4	1.31 H	68	27.0	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

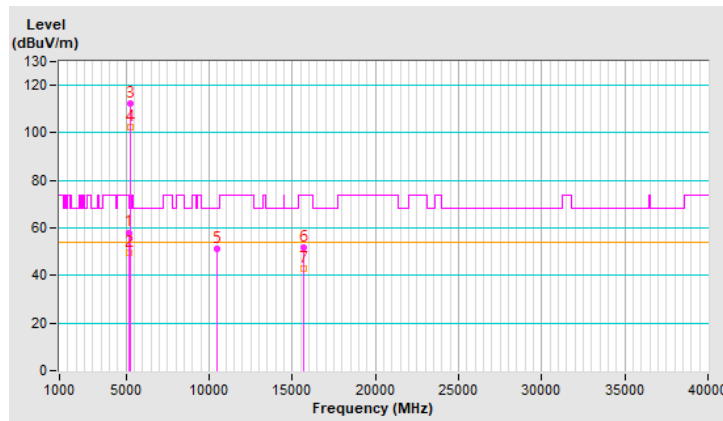


RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	3.97 V	82	52.5	5.6
2	5150.00	49.5 AV	54.0	-4.5	3.97 V	82	43.9	5.6
3	*5240.00	112.4 PK			3.97 V	82	107.2	5.2
4	*5240.00	102.2 AV			3.97 V	82	97.0	5.2
5	#10480.00	51.2 PK	68.2	-17.0	1.13 V	337	35.4	15.8
6	15720.00	51.7 PK	74.0	-22.3	1.11 V	186	35.1	16.6
7	15720.00	42.9 AV	54.0	-11.1	1.11 V	186	26.3	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

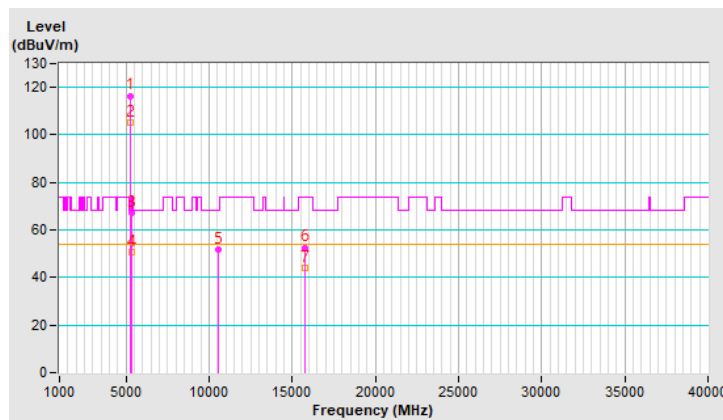


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5260.00	116.5 PK			1.48 H	353	111.3	5.2
2	*5260.00	105.3 AV			1.48 H	353	100.1	5.2
3	5350.00	67.4 PK	74.0	-6.6	1.48 H	353	61.9	5.5
4	5350.00	50.8 AV	54.0	-3.2	1.48 H	353	45.3	5.5
5	#10520.00	51.9 PK	68.2	-16.3	1.19 H	331	35.9	16.0
6	15780.00	52.6 PK	74.0	-21.4	1.31 H	71	35.9	16.7
7	15780.00	43.9 AV	54.0	-10.1	1.31 H	71	27.2	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

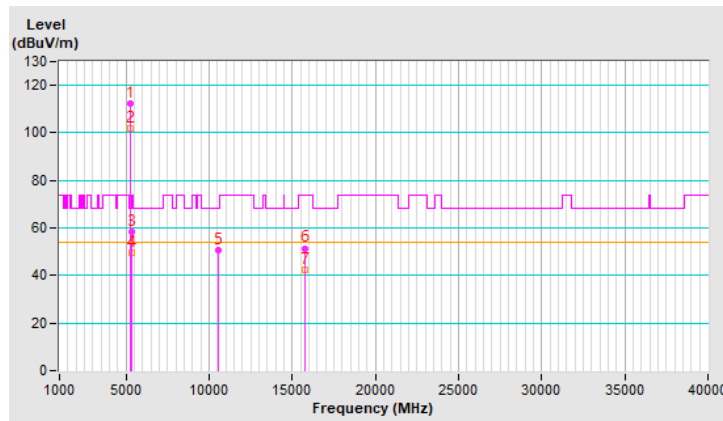


RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5260.00	112.3 PK			3.94 V	78	107.1	5.2
2	*5260.00	102.1 AV			3.94 V	78	96.9	5.2
3	5350.00	58.2 PK	74.0	-15.8	3.94 V	78	52.7	5.5
4	5350.00	49.8 AV	54.0	-4.2	3.94 V	78	44.3	5.5
5	#10520.00	50.8 PK	68.2	-17.4	1.23 V	341	34.8	16.0
6	15780.00	51.5 PK	74.0	-22.5	1.12 V	194	34.8	16.7
7	15780.00	42.3 AV	54.0	-11.7	1.12 V	194	25.6	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

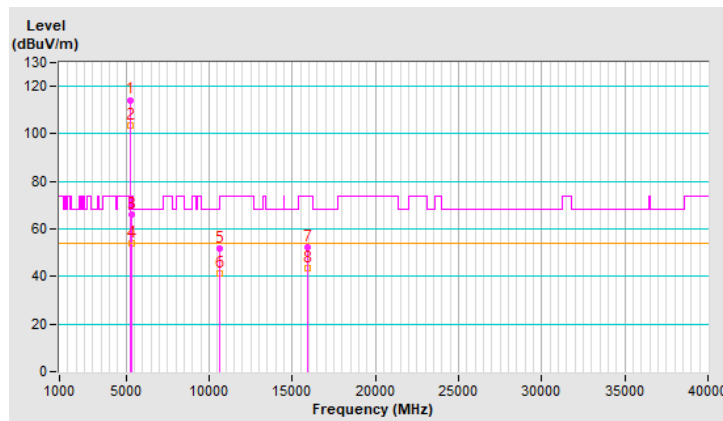


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	114.3 PK			1.62 H	353	109.1	5.2
2	*5300.00	103.5 AV			1.62 H	353	98.3	5.2
3	5350.00	65.9 PK	74.0	-8.1	1.62 H	353	60.4	5.5
4	5350.00	53.8 AV	54.0	-0.2	1.62 H	353	48.3	5.5
5	10600.00	51.6 PK	74.0	-22.4	1.17 H	321	35.8	15.8
6	10600.00	41.1 AV	54.0	-12.9	1.17 H	321	25.3	15.8
7	15900.00	52.4 PK	74.0	-21.6	1.27 H	81	36.0	16.4
8	15900.00	43.5 AV	54.0	-10.5	1.27 H	81	27.1	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

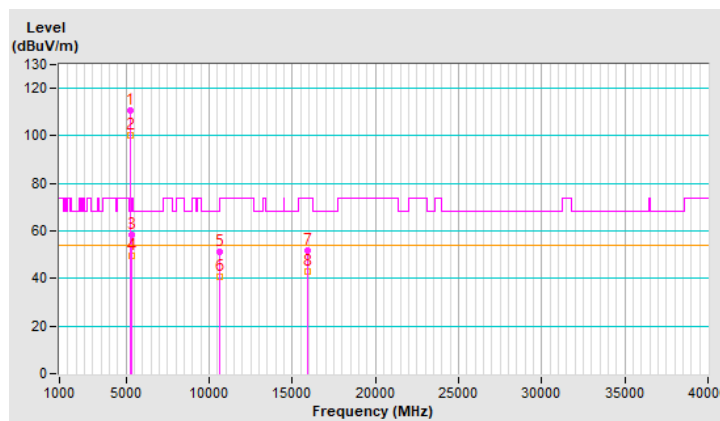


RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	110.5 PK			3.97 V	68	105.3	5.2
2	*5300.00	100.3 AV			3.97 V	68	95.1	5.2
3	5350.00	58.3 PK	74.0	-15.7	3.97 V	68	52.8	5.5
4	5350.00	49.6 AV	54.0	-4.4	3.97 V	68	44.1	5.5
5	10600.00	51.1 PK	74.0	-22.9	1.18 V	328	35.3	15.8
6	10600.00	40.6 AV	54.0	-13.4	1.18 V	328	24.8	15.8
7	15900.00	51.8 PK	74.0	-22.2	1.16 V	187	35.4	16.4
8	15900.00	42.8 AV	54.0	-11.2	1.16 V	187	26.4	16.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

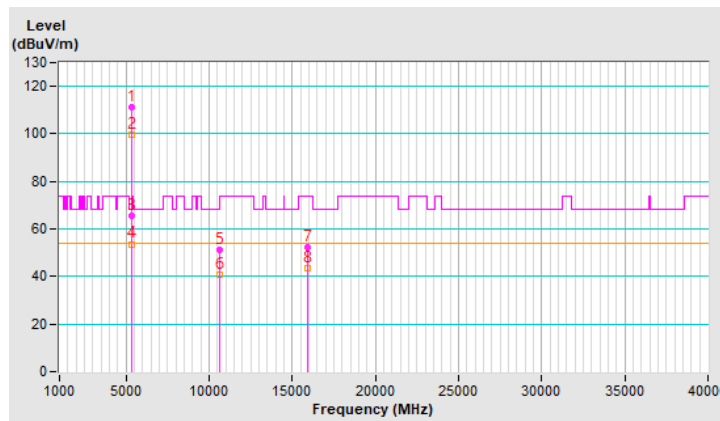


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.4 PK			1.49 H	348	106.1	5.3
2	*5320.00	99.5 AV			1.49 H	348	94.2	5.3
3	5350.00	65.6 PK	74.0	-8.4	1.49 H	348	60.1	5.5
4	5350.00	53.7 AV	54.0	-0.3	1.49 H	348	48.2	5.5
5	10640.00	51.2 PK	74.0	-22.8	1.14 H	323	35.2	16.0
6	10640.00	40.7 AV	54.0	-13.3	1.14 H	323	24.7	16.0
7	15960.00	52.1 PK	74.0	-21.9	1.26 H	69	35.2	16.9
8	15960.00	43.3 AV	54.0	-10.7	1.26 H	69	26.4	16.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

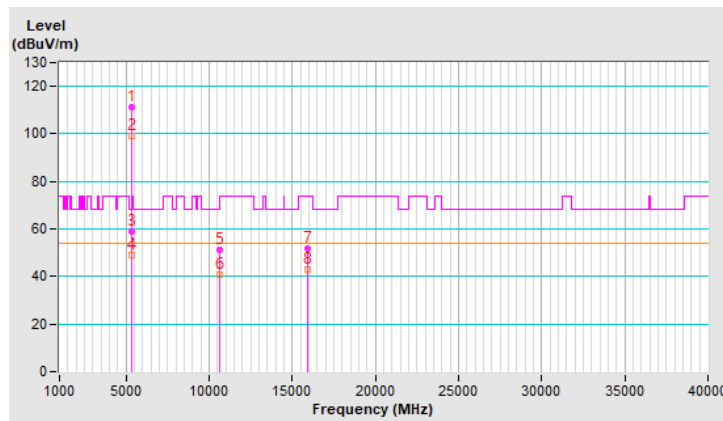


RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.2 PK			3.89 V	73	105.9	5.3
2	*5320.00	99.2 AV			3.89 V	73	93.9	5.3
3	5350.00	58.9 PK	74.0	-15.1	3.89 V	73	53.4	5.5
4	5350.00	48.8 AV	54.0	-5.2	3.89 V	73	43.3	5.5
5	10640.00	51.4 PK	74.0	-22.6	1.20 V	312	35.4	16.0
6	10640.00	40.7 AV	54.0	-13.3	1.20 V	312	24.7	16.0
7	15960.00	51.8 PK	74.0	-22.2	1.13 V	187	34.9	16.9
8	15960.00	42.7 AV	54.0	-11.3	1.13 V	187	25.8	16.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

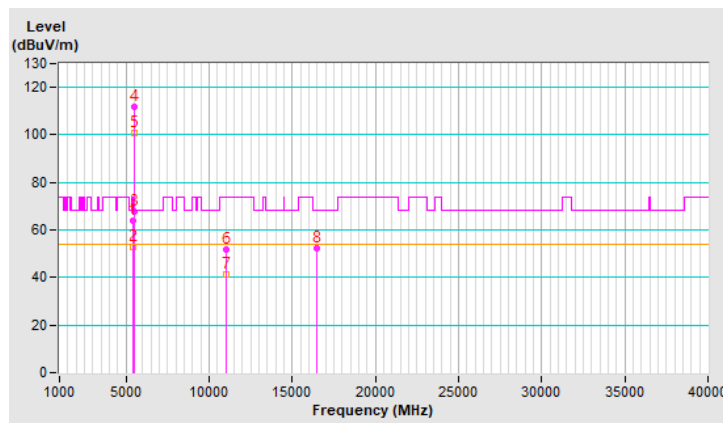


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.8 PK	74.0	-10.2	1.53 H	356	58.2	5.6
2	5460.00	53.0 AV	54.0	-1.0	1.53 H	356	47.4	5.6
3	#5470.00	67.8 PK	68.2	-0.4	1.53 H	356	62.2	5.6
4	*5500.00	111.6 PK			1.53 H	356	105.9	5.7
5	*5500.00	100.6 AV			1.53 H	356	94.9	5.7
6	11000.00	51.8 PK	74.0	-22.2	1.19 H	337	35.2	16.6
7	11000.00	41.4 AV	54.0	-12.6	1.19 H	337	24.8	16.6
8	#16500.00	52.4 PK	68.2	-15.8	1.22 H	72	33.6	18.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

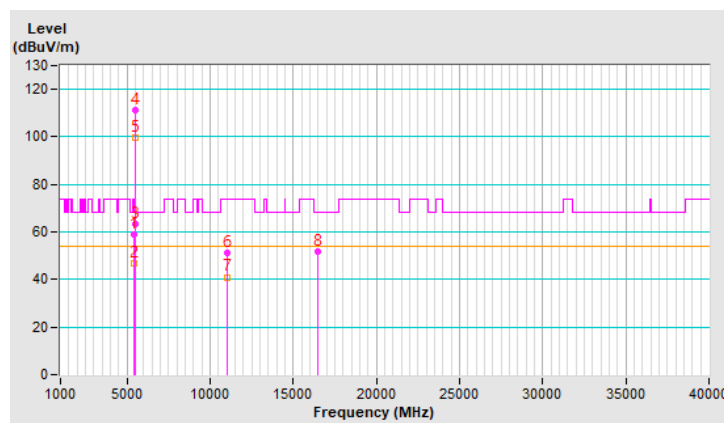


RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.9 PK	74.0	-15.1	3.95 V	58	53.3	5.6
2	5460.00	46.8 AV	54.0	-7.2	3.95 V	58	41.2	5.6
3	#5470.00	63.3 PK	68.2	-4.9	3.95 V	58	57.7	5.6
4	*5500.00	111.4 PK			3.95 V	58	105.7	5.7
5	*5500.00	99.8 AV			3.95 V	58	94.1	5.7
6	11000.00	51.3 PK	74.0	-22.7	1.13 V	332	34.7	16.6
7	11000.00	41.0 AV	54.0	-13.0	1.13 V	332	24.4	16.6
8	#16500.00	51.6 PK	68.2	-16.6	1.15 V	183	32.8	18.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

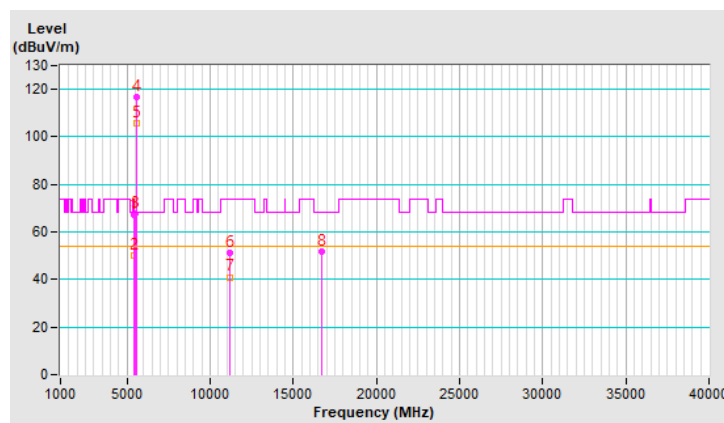


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	67.4 PK	74.0	-6.6	1.49 H	352	61.8	5.6
2	5460.00	50.1 AV	54.0	-3.9	1.49 H	352	44.5	5.6
3	#5470.00	67.9 PK	68.2	-0.3	1.49 H	352	62.3	5.6
4	*5580.00	116.7 PK			1.49 H	352	111.1	5.6
5	*5580.00	105.7 AV			1.49 H	352	100.1	5.6
6	11160.00	51.3 PK	74.0	-22.7	1.14 H	334	35.3	16.0
7	11160.00	41.0 AV	54.0	-13.0	1.14 H	334	25.0	16.0
8	#16740.00	51.9 PK	68.2	-16.3	1.24 H	88	31.0	20.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

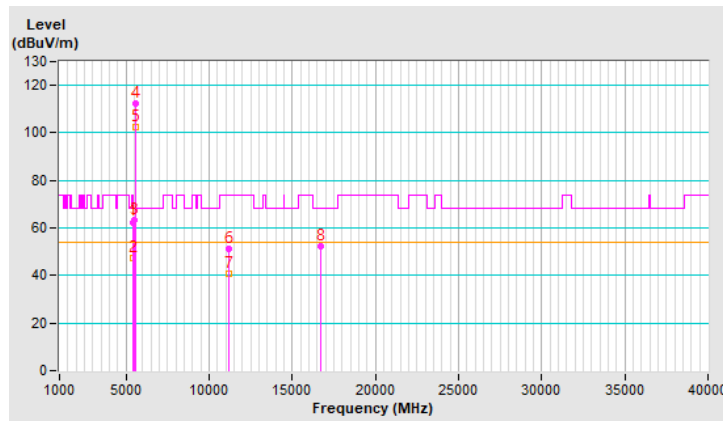


RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.5 PK	74.0	-11.5	4.00 V	62	56.9	5.6
2	5460.00	47.5 AV	54.0	-6.5	4.00 V	62	41.9	5.6
3	#5470.00	63.3 PK	68.2	-4.9	4.00 V	62	57.7	5.6
4	*5580.00	112.5 PK			4.00 V	62	106.9	5.6
5	*5580.00	102.5 AV			4.00 V	62	96.9	5.6
6	11160.00	51.2 PK	74.0	-22.8	1.19 V	344	35.2	16.0
7	11160.00	40.7 AV	54.0	-13.3	1.19 V	344	24.7	16.0
8	#16740.00	52.1 PK	68.2	-16.1	1.20 V	195	31.2	20.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



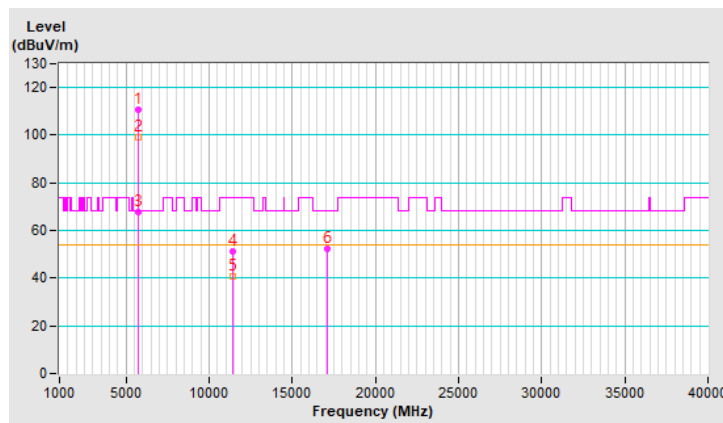
RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.6 PK			1.50 H	9	104.9	5.7
2	*5700.00	98.9 AV			1.50 H	9	93.2	5.7
3	#5725.00	67.9 PK	68.2	-0.3	1.50 H	9	62.1	5.8
4	11400.00	51.3 PK	74.0	-22.7	1.18 H	322	34.6	16.7
5	11400.00	40.7 AV	54.0	-13.3	1.18 H	322	24.0	16.7
6	#17100.00	52.1 PK	68.2	-16.1	1.28 H	79	30.5	21.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

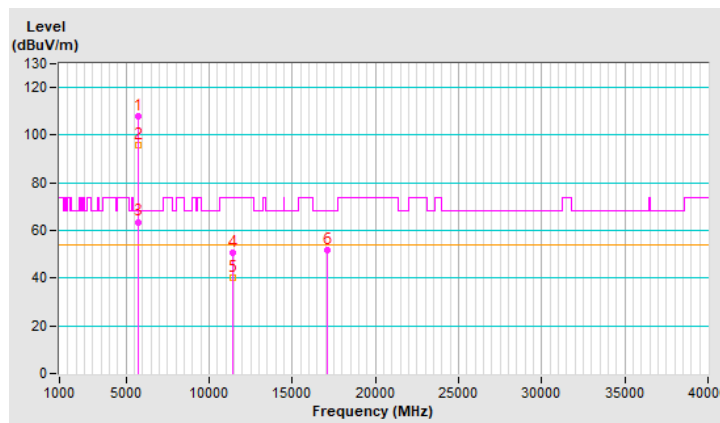


RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	*5700.00	107.8 PK			3.98 V	56	102.1	5.7
2	*5700.00	95.6 AV			3.98 V	56	89.9	5.7
3	#5725.00	63.6 PK	68.2	-4.6	3.98 V	56	57.8	5.8
4	11400.00	50.7 PK	74.0	-23.3	1.13 V	343	34.0	16.7
5	11400.00	40.1 AV	54.0	-13.9	1.13 V	343	23.4	16.7
6	#17100.00	51.8 PK	68.2	-16.4	1.20 V	191	30.2	21.6

Remarks:

1. Emission Level(dBUV/m) = Raw Value(dBUV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

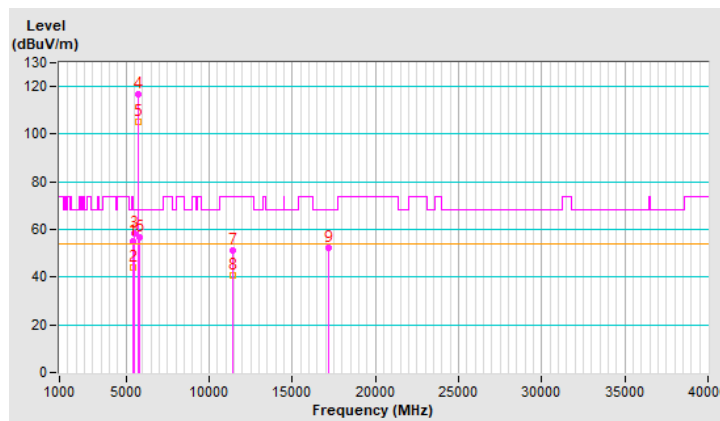


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.1 PK	74.0	-18.9	1.47 H	347	49.5	5.6
2	5460.00	44.2 AV	54.0	-9.8	1.47 H	347	38.6	5.6
3	#5470.00	58.3 PK	68.2	-9.9	1.47 H	347	52.7	5.6
4	*5720.00	116.6 PK			1.47 H	347	110.8	5.8
5	*5720.00	105.4 AV			1.47 H	347	99.6	5.8
6	#5850.00	56.5 PK	68.2	-11.7	1.47 H	347	50.0	6.5
7	11440.00	51.4 PK	74.0	-22.6	1.11 H	331	34.6	16.8
8	11440.00	40.8 AV	54.0	-13.2	1.11 H	331	24.0	16.8
9	#17160.00	52.2 PK	68.2	-16.0	1.29 H	81	30.9	21.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

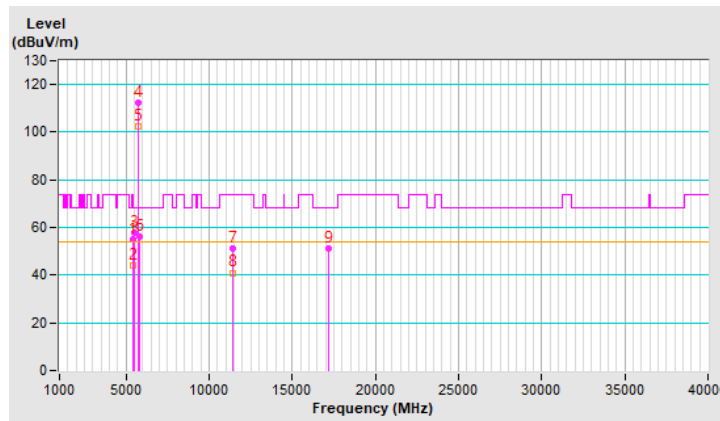


RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.0 PK	74.0	-19.0	4.00 V	63	49.4	5.6
2	5460.00	44.0 AV	54.0	-10.0	4.00 V	63	38.4	5.6
3	#5470.00	57.9 PK	68.2	-10.3	4.00 V	63	52.3	5.6
4	*5720.00	112.6 PK			4.00 V	63	106.8	5.8
5	*5720.00	102.4 AV			4.00 V	63	96.6	5.8
6	#5850.00	56.2 PK	68.2	-12.0	4.00 V	63	49.7	6.5
7	11440.00	51.3 PK	74.0	-22.7	1.18 V	337	34.5	16.8
8	11440.00	41.0 AV	54.0	-13.0	1.18 V	337	24.2	16.8
9	#17160.00	51.3 PK	68.2	-16.9	1.15 V	191	30.0	21.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

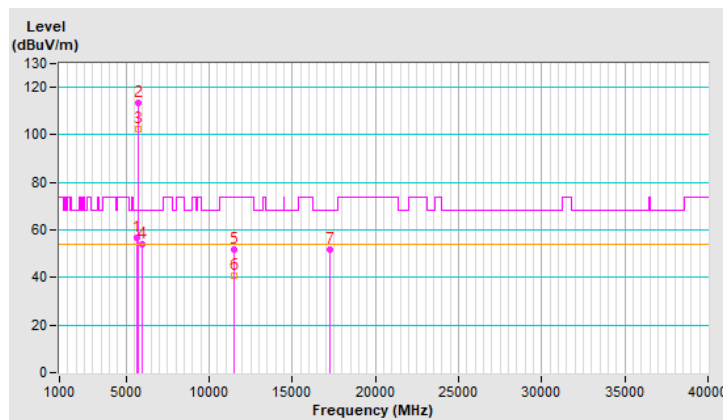


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.95	56.7 PK	68.2	-11.5	1.36 H	357	50.9	5.8
2	*5745.00	113.2 PK			1.36 H	357	107.4	5.8
3	*5745.00	102.4 AV			1.36 H	357	96.6	5.8
4	#5947.56	54.0 PK	68.2	-14.2	1.36 H	357	47.6	6.4
5	11490.00	51.6 PK	74.0	-22.4	1.15 H	324	34.7	16.9
6	11490.00	40.8 AV	54.0	-13.2	1.15 H	324	23.9	16.9
7	#17235.00	51.6 PK	68.2	-16.6	1.25 H	93	30.5	21.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

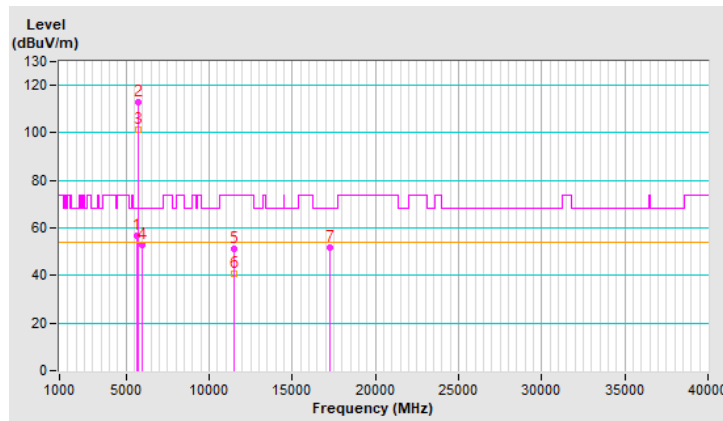


RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.94	56.5 PK	68.2	-11.7	3.95 V	103	50.6	5.9
2	*5745.00	112.7 PK			3.95 V	103	106.9	5.8
3	*5745.00	101.1 AV			3.95 V	103	95.3	5.8
4	#5970.09	52.8 PK	68.2	-15.4	3.95 V	103	46.5	6.3
5	11490.00	51.3 PK	74.0	-22.7	1.18 V	340	34.4	16.9
6	11490.00	40.8 AV	54.0	-13.2	1.18 V	340	23.9	16.9
7	#17235.00	52.0 PK	68.2	-16.2	1.11 V	172	30.9	21.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

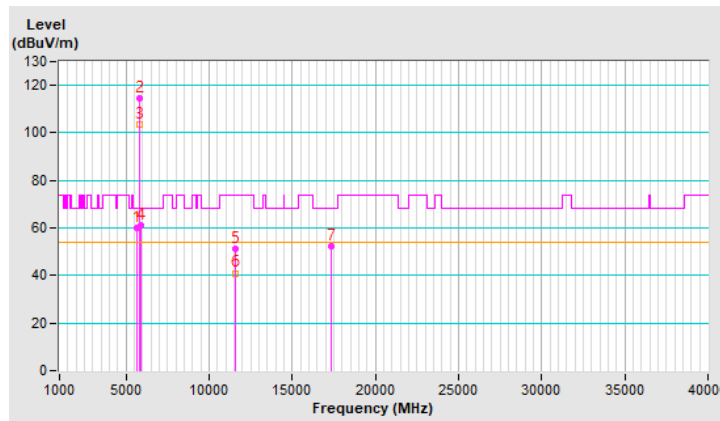


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.32	60.1 PK	68.2	-8.1	1.34 H	356	54.2	5.9
2	*5785.00	114.5 PK			1.34 H	356	108.3	6.2
3	*5785.00	103.6 AV			1.34 H	356	97.4	6.2
4	#5926.88	61.0 PK	68.2	-7.2	1.34 H	356	54.7	6.3
5	11570.00	51.3 PK	74.0	-22.7	1.16 H	318	34.6	16.7
6	11570.00	41.0 AV	54.0	-13.0	1.16 H	318	24.3	16.7
7	#17355.00	52.1 PK	68.2	-16.1	1.21 H	68	30.5	21.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

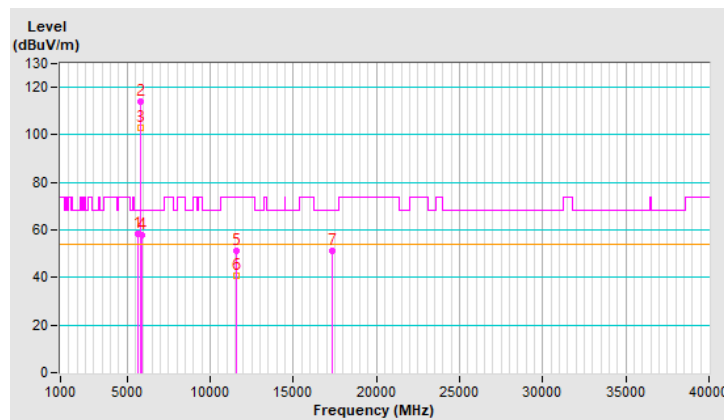


RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.34	58.4 PK	68.2	-9.8	3.94 V	69	52.5	5.9
2	*5785.00	113.8 PK			3.94 V	69	107.6	6.2
3	*5785.00	103.0 AV			3.94 V	69	96.8	6.2
4	#5931.03	57.8 PK	68.2	-10.4	3.94 V	69	51.5	6.3
5	11570.00	51.4 PK	74.0	-22.6	1.17 V	340	34.7	16.7
6	11570.00	40.7 AV	54.0	-13.3	1.17 V	340	24.0	16.7
7	#17355.00	51.3 PK	68.2	-16.9	1.12 V	203	29.7	21.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

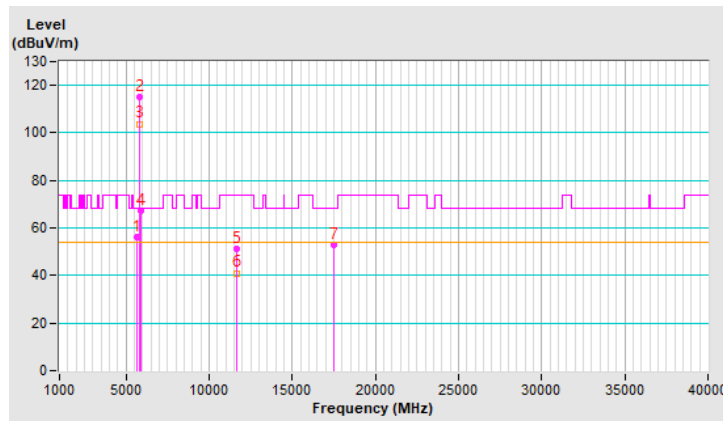


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.84	56.2 PK	68.2	-12.0	1.37 H	359	50.3	5.9
2	*5825.00	114.9 PK			1.37 H	359	108.5	6.4
3	*5825.00	103.8 AV			1.37 H	359	97.4	6.4
4	#5925.29	67.3 PK	68.2	-0.9	1.37 H	359	61.0	6.3
5	11650.00	51.2 PK	74.0	-22.8	1.12 H	315	34.7	16.5
6	11650.00	41.0 AV	54.0	-13.0	1.12 H	315	24.5	16.5
7	#17475.00	52.8 PK	68.2	-15.4	1.28 H	69	30.8	22.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

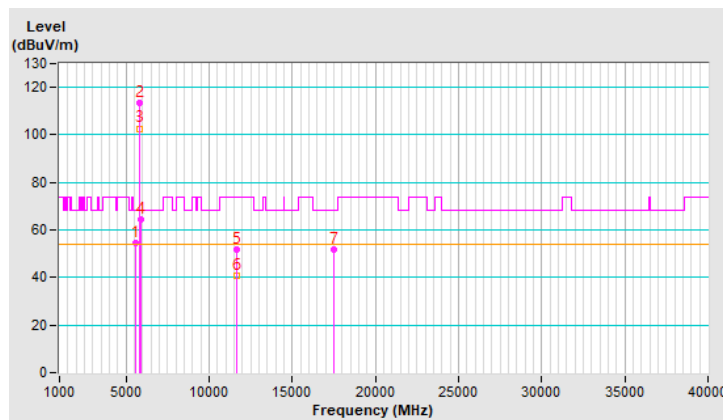


RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5615.91	54.3 PK	68.2	-13.9	3.97 V	59	48.6	5.7
2	*5825.00	113.7 PK			3.97 V	59	107.3	6.4
3	*5825.00	102.7 AV			3.97 V	59	96.3	6.4
4	#5928.31	64.2 PK	68.2	-4.0	3.97 V	59	57.9	6.3
5	11650.00	51.6 PK	74.0	-22.4	1.14 V	343	35.1	16.5
6	11650.00	40.9 AV	54.0	-13.1	1.14 V	343	24.4	16.5
7	#17475.00	51.8 PK	68.2	-16.4	1.19 V	186	29.8	22.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

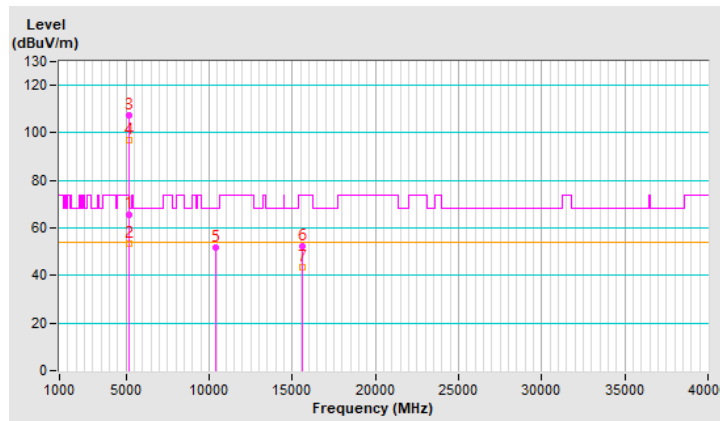


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.51 H	356	60.2	5.6
2	5150.00	53.6 AV	54.0	-0.4	1.51 H	356	48.0	5.6
3	*5190.00	107.4 PK			1.51 H	356	101.8	5.6
4	*5190.00	96.7 AV			1.51 H	356	91.1	5.6
5	#10380.00	51.7 PK	68.2	-16.5	1.13 H	314	36.1	15.6
6	15570.00	52.5 PK	74.0	-21.5	1.24 H	96	36.0	16.5
7	15570.00	43.4 AV	54.0	-10.6	1.24 H	96	26.9	16.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

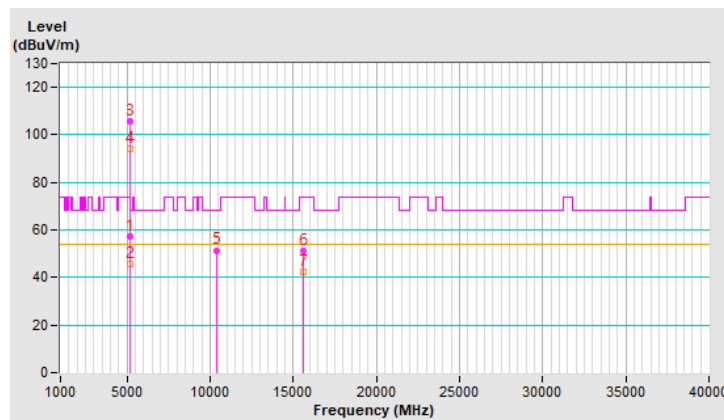


RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.1 PK	74.0	-16.9	3.86 V	83	51.5	5.6
2	5150.00	45.5 AV	54.0	-8.5	3.86 V	83	39.9	5.6
3	*5190.00	105.5 PK			3.86 V	83	99.9	5.6
4	*5190.00	94.4 AV			3.86 V	83	88.8	5.6
5	#10380.00	51.5 PK	68.2	-16.7	1.19 V	317	35.9	15.6
6	15570.00	51.3 PK	74.0	-22.7	1.21 V	184	34.8	16.5
7	15570.00	42.3 AV	54.0	-11.7	1.21 V	184	25.8	16.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



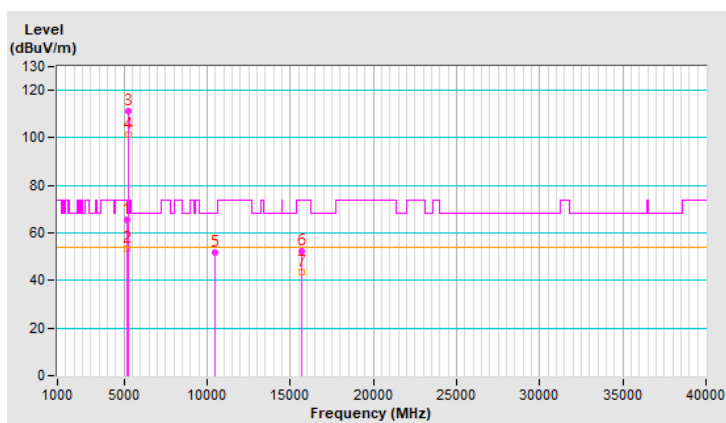
RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.3 PK	74.0	-8.7	1.39 H	356	59.7	5.6
2	5150.00	53.6 AV	54.0	-0.4	1.39 H	356	48.0	5.6
3	*5230.00	111.3 PK			1.39 H	356	105.9	5.4
4	*5230.00	101.2 AV			1.39 H	356	95.8	5.4
5	#10460.00	51.6 PK	68.2	-16.6	1.15 H	314	35.8	15.8
6	15690.00	52.2 PK	74.0	-21.8	1.29 H	96	35.6	16.6
7	15690.00	43.4 AV	54.0	-10.6	1.29 H	96	26.8	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

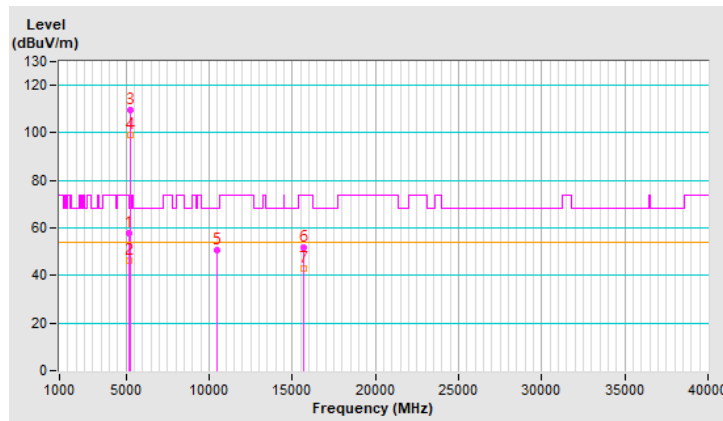


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.7 PK	74.0	-16.3	3.96 V	82	52.1	5.6
2	5150.00	46.0 AV	54.0	-8.0	3.96 V	82	40.4	5.6
3	*5230.00	109.8 PK			3.96 V	82	104.4	5.4
4	*5230.00	99.2 AV			3.96 V	82	93.8	5.4
5	#10460.00	50.9 PK	68.2	-17.3	1.21 V	330	35.1	15.8
6	15690.00	52.0 PK	74.0	-22.0	1.12 V	176	35.4	16.6
7	15690.00	42.7 AV	54.0	-11.3	1.12 V	176	26.1	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

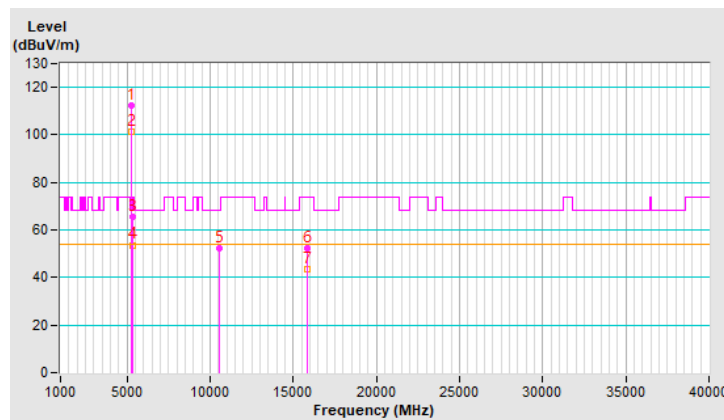


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	112.6 PK			1.58 H	348	107.4	5.2
2	*5270.00	101.4 AV			1.58 H	348	96.2	5.2
3	5350.00	65.4 PK	74.0	-8.6	1.58 H	348	59.9	5.5
4	5350.00	53.7 AV	54.0	-0.3	1.58 H	348	48.2	5.5
5	#10540.00	52.2 PK	68.2	-16.0	1.18 H	335	36.4	15.8
6	15810.00	52.2 PK	74.0	-21.8	1.28 H	78	35.5	16.7
7	15810.00	43.3 AV	54.0	-10.7	1.28 H	78	26.6	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

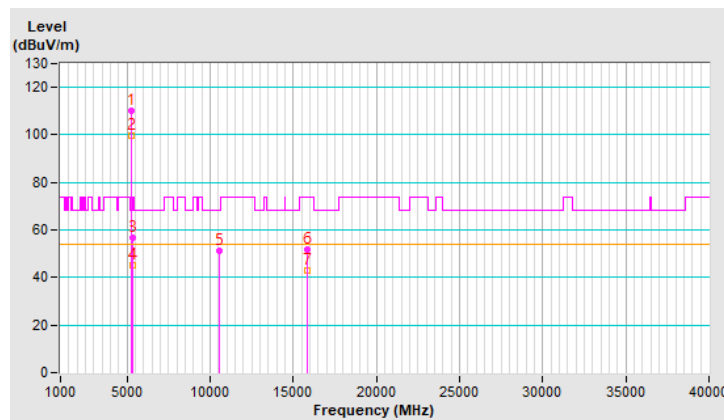


RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	110.1 PK			3.94 V	55	104.9	5.2
2	*5270.00	99.5 AV			3.94 V	55	94.3	5.2
3	5350.00	56.7 PK	74.0	-17.3	3.94 V	55	51.2	5.5
4	5350.00	45.3 AV	54.0	-8.7	3.94 V	55	39.8	5.5
5	#10540.00	51.2 PK	68.2	-17.0	1.20 V	333	35.4	15.8
6	15810.00	52.0 PK	74.0	-22.0	1.11 V	187	35.3	16.7
7	15810.00	42.8 AV	54.0	-11.2	1.11 V	187	26.1	16.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

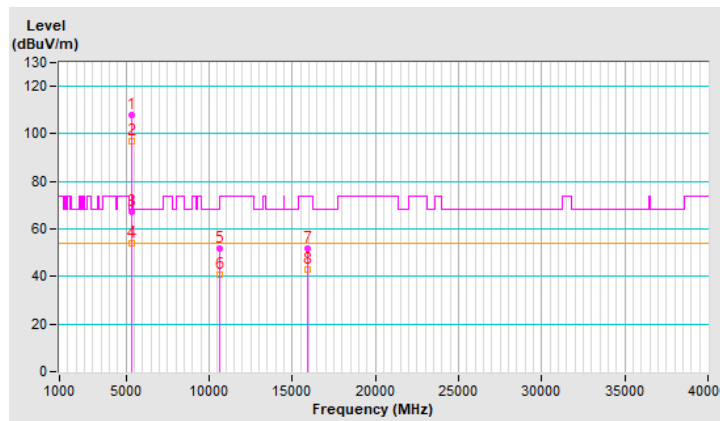


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	108.0 PK			1.38 H	359	102.8	5.2
2	*5310.00	97.1 AV			1.38 H	359	91.9	5.2
3	5350.00	67.4 PK	74.0	-6.6	1.38 H	359	61.9	5.5
4	5350.00	53.9 AV	54.0	-0.1	1.38 H	359	48.4	5.5
5	10620.00	51.6 PK	74.0	-22.4	1.14 H	318	35.7	15.9
6	10620.00	40.9 AV	54.0	-13.1	1.14 H	318	25.0	15.9
7	15930.00	51.9 PK	74.0	-22.1	1.22 H	86	35.3	16.6
8	15930.00	43.0 AV	54.0	-11.0	1.22 H	86	26.4	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

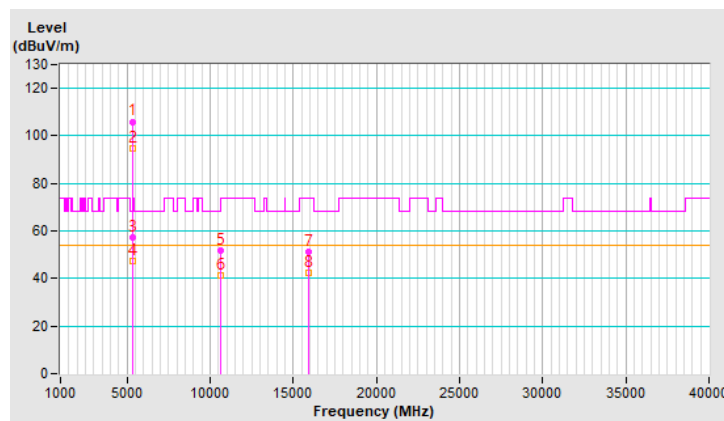


RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	106.0 PK			3.89 V	96	100.8	5.2
2	*5310.00	94.9 AV			3.89 V	96	89.7	5.2
3	5350.00	57.2 PK	74.0	-16.8	3.89 V	96	51.7	5.5
4	5350.00	47.3 AV	54.0	-6.7	3.89 V	96	41.8	5.5
5	10620.00	51.6 PK	74.0	-22.4	1.23 V	323	35.7	15.9
6	10620.00	41.1 AV	54.0	-12.9	1.23 V	323	25.2	15.9
7	15930.00	51.3 PK	74.0	-22.7	1.12 V	191	34.7	16.6
8	15930.00	42.5 AV	54.0	-11.5	1.12 V	191	25.9	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

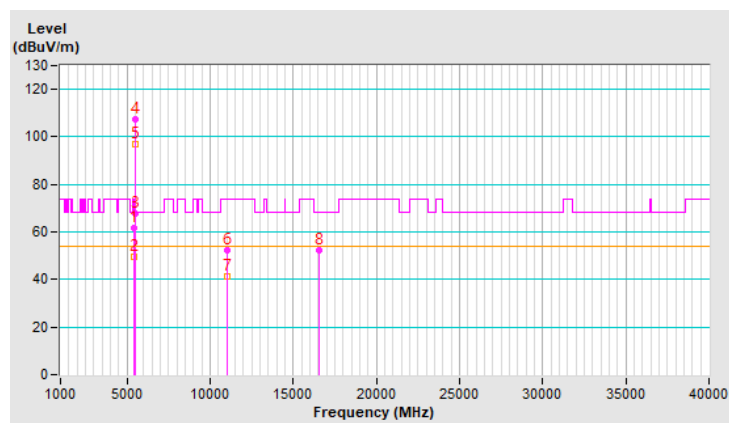


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.6 PK	74.0	-12.4	1.47 H	360	56.0	5.6
2	5460.00	49.5 AV	54.0	-4.5	1.47 H	360	43.9	5.6
3	#5466.77	67.9 PK	68.2	-0.3	1.47 H	360	62.3	5.6
4	*5510.00	107.3 PK			1.47 H	360	101.6	5.7
5	*5510.00	96.8 AV			1.47 H	360	91.1	5.7
6	11020.00	52.1 PK	74.0	-21.9	1.11 H	312	35.7	16.4
7	11020.00	41.5 AV	54.0	-12.5	1.11 H	312	25.1	16.4
8	#16530.00	52.3 PK	68.2	-15.9	1.33 H	90	33.1	19.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

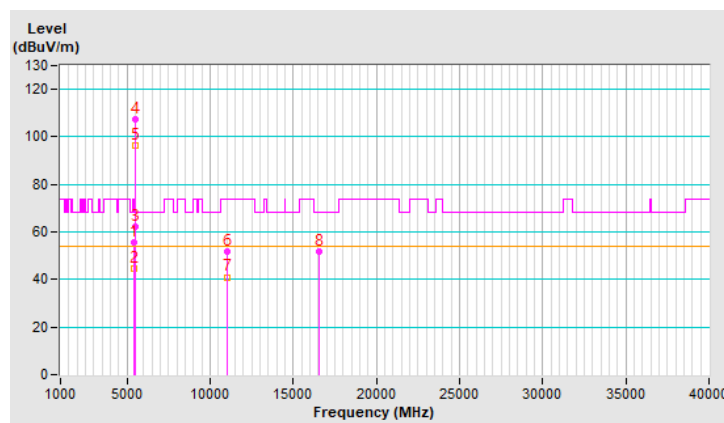


RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.8 PK	74.0	-18.2	3.94 V	58	50.2	5.6
2	5460.00	44.8 AV	54.0	-9.2	3.94 V	58	39.2	5.6
3	#5470.00	62.4 PK	68.2	-5.8	3.94 V	58	56.8	5.6
4	*5510.00	107.4 PK			3.94 V	58	101.7	5.7
5	*5510.00	96.6 AV			3.94 V	58	90.9	5.7
6	11020.00	51.6 PK	74.0	-22.4	1.19 V	335	35.2	16.4
7	11020.00	41.0 AV	54.0	-13.0	1.19 V	335	24.6	16.4
8	#16530.00	51.7 PK	68.2	-16.5	1.22 V	182	32.5	19.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

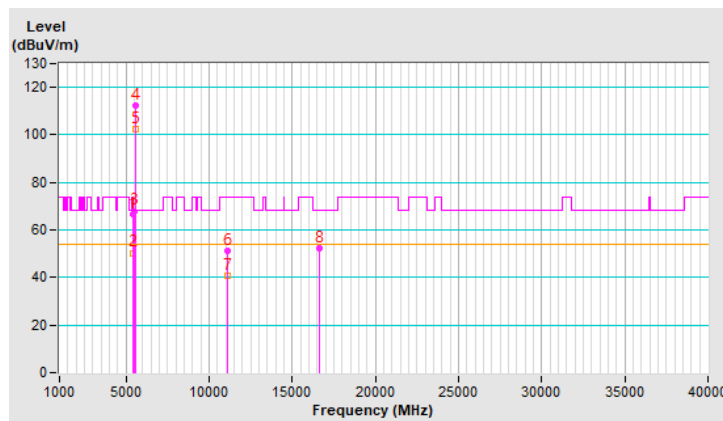


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	66.8 PK	74.0	-7.2	1.51 H	2	61.2	5.6
2	5460.00	50.4 AV	54.0	-3.6	1.51 H	2	44.8	5.6
3	#5470.00	68.0 PK	68.2	-0.2	1.51 H	2	62.4	5.6
4	*5550.00	112.5 PK			1.51 H	2	106.9	5.6
5	*5550.00	102.3 AV			1.51 H	2	96.7	5.6
6	11100.00	51.2 PK	74.0	-22.8	1.13 H	331	35.2	16.0
7	11100.00	40.7 AV	54.0	-13.3	1.13 H	331	24.7	16.0
8	#16650.00	52.1 PK	68.2	-16.1	1.28 H	66	31.6	20.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

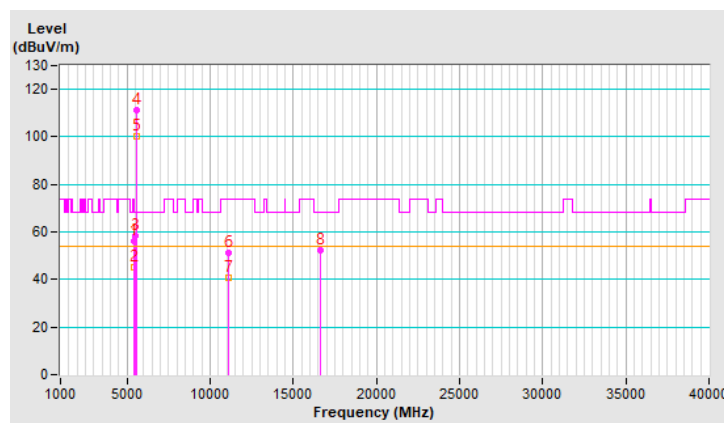


RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.4 PK	74.0	-17.6	3.98 V	65	50.8	5.6
2	5460.00	45.3 AV	54.0	-8.7	3.98 V	65	39.7	5.6
3	#5470.00	58.4 PK	68.2	-9.8	3.98 V	65	52.8	5.6
4	*5550.00	111.3 PK			3.98 V	65	105.7	5.6
5	*5550.00	100.2 AV			3.98 V	65	94.6	5.6
6	11100.00	51.1 PK	74.0	-22.9	1.15 V	313	35.1	16.0
7	11100.00	40.7 AV	54.0	-13.3	1.15 V	313	24.7	16.0
8	#16650.00	52.1 PK	68.2	-16.1	1.18 V	174	31.6	20.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

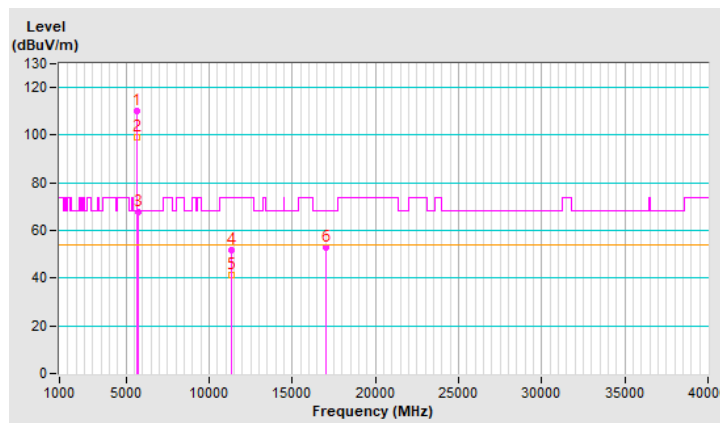


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	110.2 PK			1.45 H	359	104.5	5.7
2	*5670.00	99.2 AV			1.45 H	359	93.5	5.7
3	#5725.00	67.9 PK	68.2	-0.3	1.45 H	359	62.1	5.8
4	11340.00	51.7 PK	74.0	-22.3	1.21 H	328	35.1	16.6
5	11340.00	41.2 AV	54.0	-12.8	1.21 H	328	24.6	16.6
6	#17010.00	53.0 PK	68.2	-15.2	1.26 H	96	30.9	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

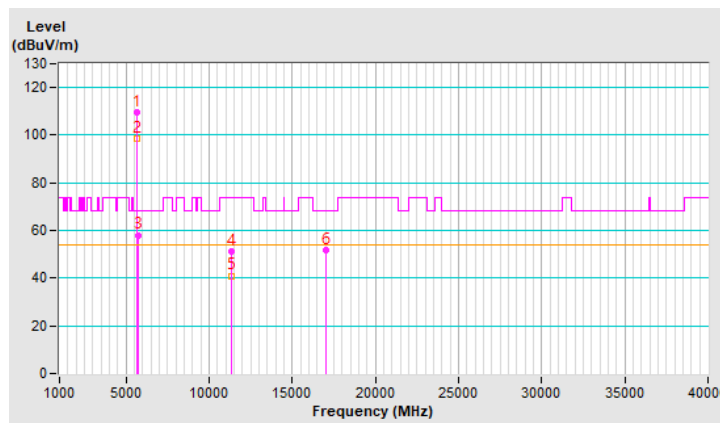


RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	109.6 PK			3.96 V	75	103.9	5.7
2	*5670.00	98.4 AV			3.96 V	75	92.7	5.7
3	#5725.00	58.1 PK	68.2	-10.1	3.96 V	75	52.3	5.8
4	11340.00	51.3 PK	74.0	-22.7	1.16 V	319	34.7	16.6
5	11340.00	41.0 AV	54.0	-13.0	1.16 V	319	24.4	16.6
6	#17010.00	51.8 PK	68.2	-16.4	1.15 V	187	29.7	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

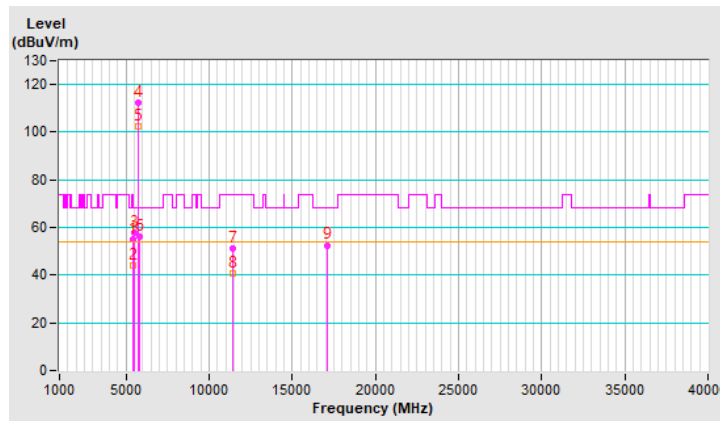


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.0 PK	74.0	-19.0	1.48 H	339	49.4	5.6
2	5460.00	43.9 AV	54.0	-10.1	1.48 H	339	38.3	5.6
3	#5470.00	57.6 PK	68.2	-10.6	1.48 H	339	52.0	5.6
4	*5710.00	112.6 PK			1.48 H	339	106.9	5.7
5	*5710.00	102.4 AV			1.48 H	339	96.7	5.7
6	#5850.00	56.0 PK	68.2	-12.2	1.48 H	339	49.5	6.5
7	11420.00	51.2 PK	74.0	-22.8	1.19 H	312	34.5	16.7
8	11420.00	40.6 AV	54.0	-13.4	1.19 H	312	23.9	16.7
9	#17130.00	52.6 PK	68.2	-15.6	1.31 H	74	31.1	21.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

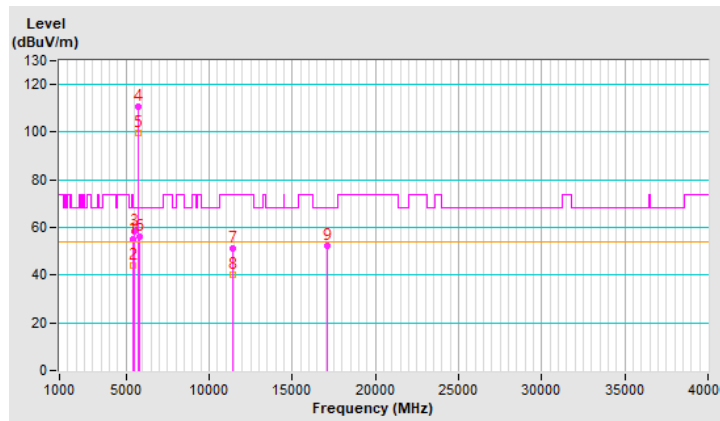


RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.3 PK	74.0	-18.7	3.97 V	81	49.7	5.6
2	5460.00	44.2 AV	54.0	-9.8	3.97 V	81	38.6	5.6
3	#5470.00	58.6 PK	68.2	-9.6	3.97 V	81	53.0	5.6
4	*5710.00	110.6 PK			3.97 V	81	104.9	5.7
5	*5710.00	99.5 AV			3.97 V	81	93.8	5.7
6	#5850.00	56.2 PK	68.2	-12.0	3.97 V	81	49.7	6.5
7	11420.00	51.0 PK	74.0	-23.0	1.23 V	327	34.3	16.7
8	11420.00	40.2 AV	54.0	-13.8	1.23 V	327	23.5	16.7
9	#17130.00	52.4 PK	68.2	-15.8	1.14 V	190	30.9	21.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

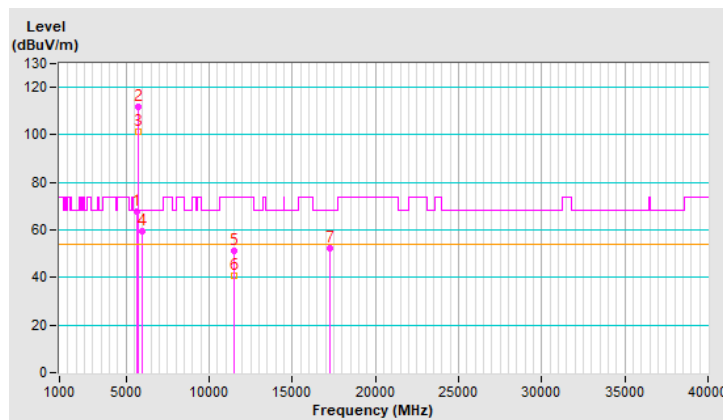


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.19	67.9 PK	68.2	-0.3	1.52 H	353	62.0	5.9
2	*5755.00	111.9 PK			1.52 H	353	106.1	5.8
3	*5755.00	101.2 AV			1.52 H	353	95.4	5.8
4	#5944.24	59.7 PK	68.2	-8.5	1.52 H	353	53.3	6.4
5	11510.00	51.1 PK	74.0	-22.9	1.14 H	311	34.2	16.9
6	11510.00	40.6 AV	54.0	-13.4	1.14 H	311	23.7	16.9
7	#17265.00	52.5 PK	68.2	-15.7	1.29 H	67	31.4	21.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

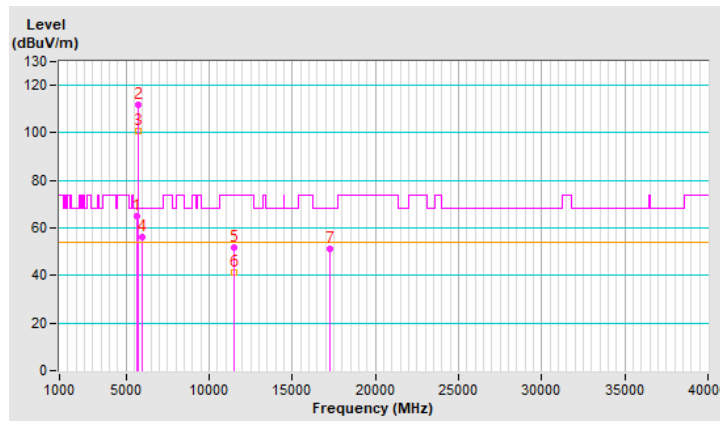


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.74	65.0 PK	68.2	-3.2	4.00 V	68	59.1	5.9
2	*5755.00	111.8 PK			4.00 V	68	106.0	5.8
3	*5755.00	101.0 AV			4.00 V	68	95.2	5.8
4	#5946.60	56.4 PK	68.2	-11.8	4.00 V	68	50.0	6.4
5	11510.00	51.9 PK	74.0	-22.1	1.17 V	335	35.0	16.9
6	11510.00	41.1 AV	54.0	-12.9	1.17 V	335	24.2	16.9
7	#17265.00	51.4 PK	68.2	-16.8	1.12 V	195	30.3	21.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

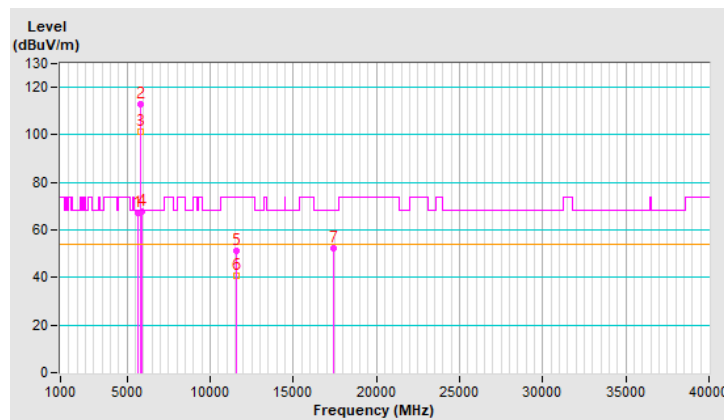


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.93	67.4 PK	68.2	-0.8	1.54 H	357	61.5	5.9
2	*5795.00	112.7 PK			1.54 H	357	106.4	6.3
3	*5795.00	101.3 AV			1.54 H	357	95.0	6.3
4	#5925.63	67.8 PK	68.2	-0.4	1.54 H	357	61.5	6.3
5	11590.00	51.2 PK	74.0	-22.8	1.12 H	336	34.6	16.6
6	11590.00	40.7 AV	54.0	-13.3	1.12 H	336	24.1	16.6
7	#17385.00	52.5 PK	68.2	-15.7	1.23 H	87	30.7	21.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

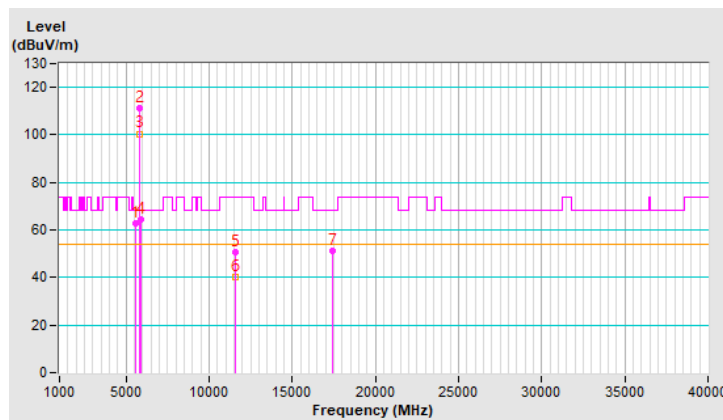


RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5578.96	62.8 PK	68.2	-5.4	4.00 V	59	57.2	5.6
2	*5795.00	111.5 PK			4.00 V	59	105.2	6.3
3	*5795.00	100.5 AV			4.00 V	59	94.2	6.3
4	#5928.78	64.5 PK	68.2	-3.7	4.00 V	59	58.2	6.3
5	11590.00	50.6 PK	74.0	-23.4	1.16 V	334	34.0	16.6
6	11590.00	40.4 AV	54.0	-13.6	1.16 V	334	23.8	16.6
7	#17385.00	51.0 PK	68.2	-17.2	1.15 V	201	29.2	21.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

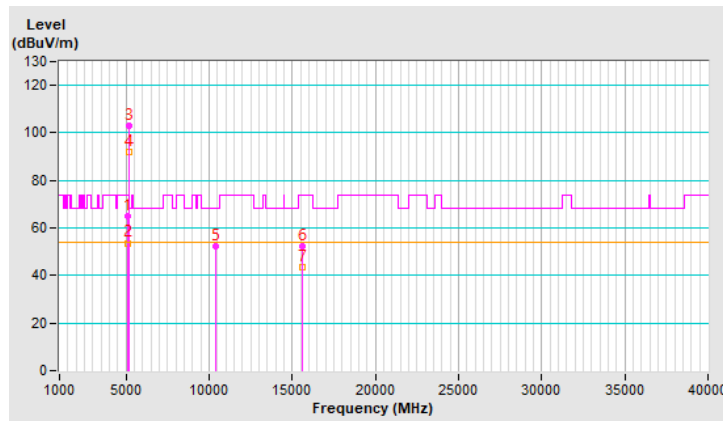


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5103.96	64.9 PK	74.0	-9.1	1.37 H	7	59.4	5.5
2	5103.96	53.7 AV	54.0	-0.3	1.37 H	7	48.2	5.5
3	*5210.00	102.8 PK			1.37 H	7	97.3	5.5
4	*5210.00	91.8 AV			1.37 H	7	86.3	5.5
5	#10420.00	52.1 PK	68.2	-16.1	1.17 H	328	36.4	15.7
6	15630.00	52.5 PK	74.0	-21.5	1.27 H	83	35.9	16.6
7	15630.00	43.5 AV	54.0	-10.5	1.27 H	83	26.9	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

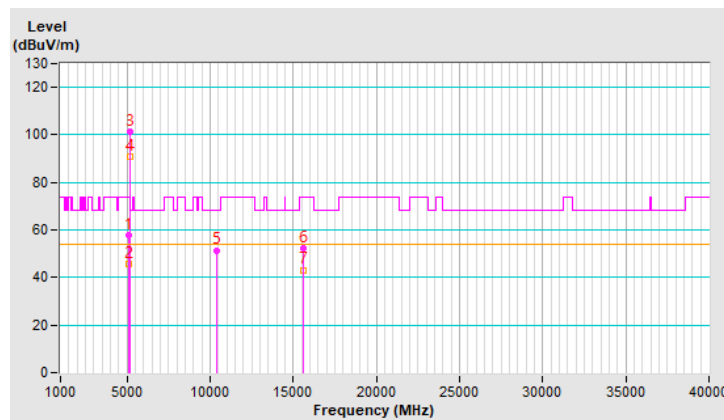


RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5103.96	57.6 PK	74.0	-16.4	3.96 V	110	52.1	5.5
2	5103.96	45.8 AV	54.0	-8.2	3.96 V	110	40.3	5.5
3	*5210.00	101.1 PK			3.96 V	110	95.6	5.5
4	*5210.00	90.8 AV			3.96 V	110	85.3	5.5
5	#10420.00	51.5 PK	68.2	-16.7	1.16 V	323	35.8	15.7
6	15630.00	52.4 PK	74.0	-21.6	1.17 V	201	35.8	16.6
7	15630.00	43.2 AV	54.0	-10.8	1.17 V	201	26.6	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



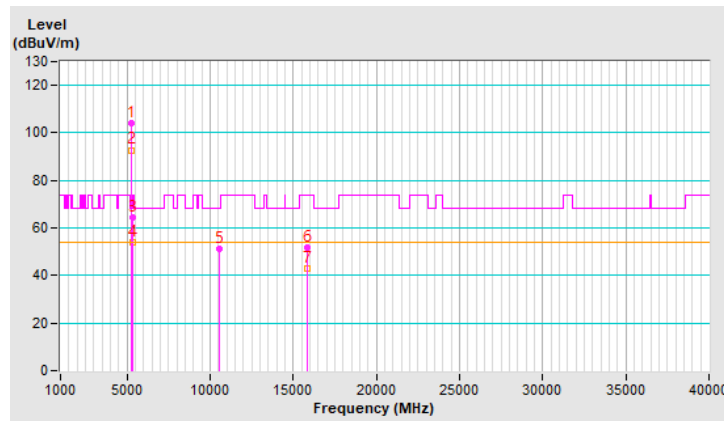
RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	104.2 PK			1.53 H	350	99.0	5.2
2	*5290.00	92.8 AV			1.53 H	350	87.6	5.2
3	5350.00	64.4 PK	74.0	-9.6	1.53 H	350	58.9	5.5
4	5350.00	53.8 AV	54.0	-0.2	1.53 H	350	48.3	5.5
5	#10580.00	51.4 PK	68.2	-16.8	1.18 H	317	35.5	15.9
6	15870.00	51.8 PK	74.0	-22.2	1.28 H	95	35.3	16.5
7	15870.00	43.1 AV	54.0	-10.9	1.28 H	95	26.6	16.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

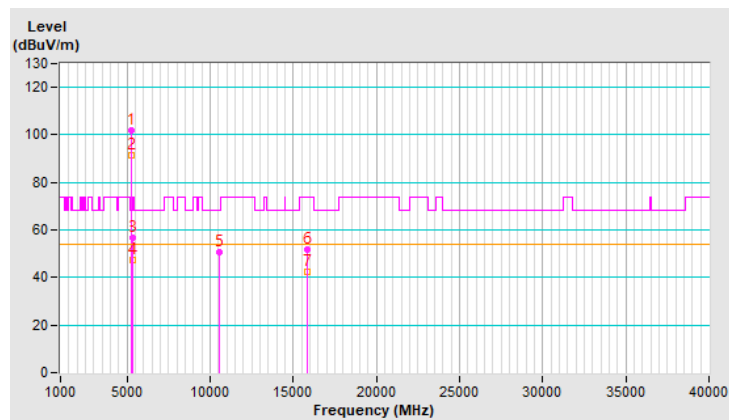


RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	102.0 PK			3.96 V	71	96.8	5.2
2	*5290.00	91.2 AV			3.96 V	71	86.0	5.2
3	5373.05	56.7 PK	74.0	-17.3	3.96 V	71	51.2	5.5
4	5373.05	47.1 AV	54.0	-6.9	3.96 V	71	41.6	5.5
5	#10580.00	50.9 PK	68.2	-17.3	1.17 V	342	35.0	15.9
6	15870.00	51.9 PK	74.0	-22.1	1.11 V	172	35.4	16.5
7	15870.00	42.6 AV	54.0	-11.4	1.11 V	172	26.1	16.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

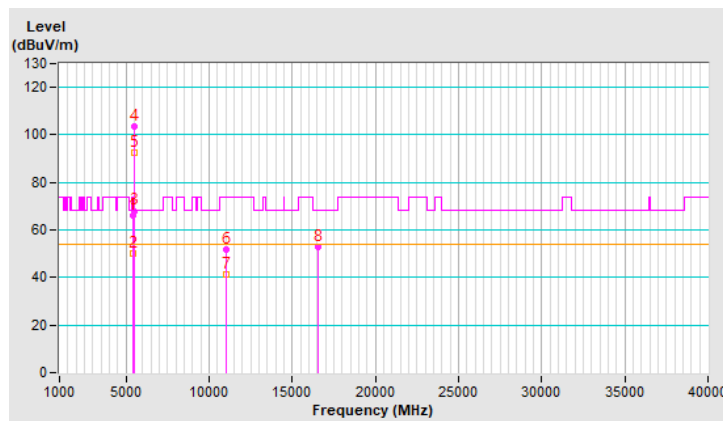


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5455.81	65.9 PK	74.0	-8.1	1.49 H	357	60.3	5.6
2	5455.81	50.3 AV	54.0	-3.7	1.49 H	357	44.7	5.6
3	#5463.91	68.0 PK	68.2	-0.2	1.49 H	357	62.4	5.6
4	*5530.00	103.7 PK			1.49 H	357	98.1	5.6
5	*5530.00	92.5 AV			1.49 H	357	86.9	5.6
6	11060.00	51.7 PK	74.0	-22.3	1.20 H	310	35.5	16.2
7	11060.00	41.2 AV	54.0	-12.8	1.20 H	310	25.0	16.2
8	#16590.00	53.0 PK	68.2	-15.2	1.23 H	89	32.8	20.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

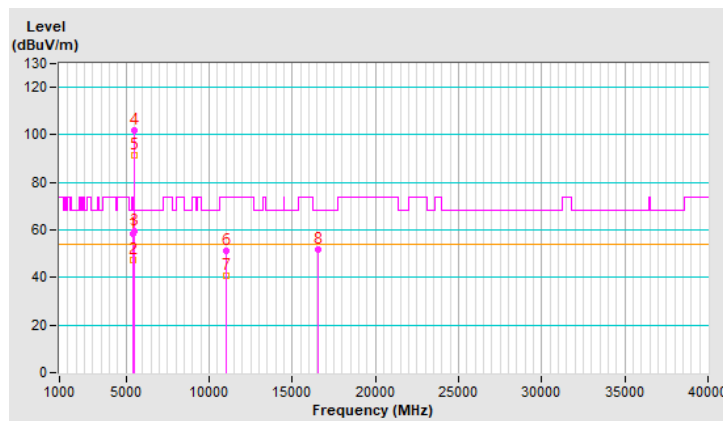


RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5450.65	58.5 PK	74.0	-15.5	3.97 V	74	52.9	5.6
2	5450.65	47.6 AV	54.0	-6.4	3.97 V	74	42.0	5.6
3	#5467.94	59.3 PK	68.2	-8.9	3.97 V	74	53.7	5.6
4	*5530.00	102.0 PK			3.97 V	74	96.4	5.6
5	*5530.00	91.2 AV			3.97 V	74	85.6	5.6
6	11060.00	51.2 PK	74.0	-22.8	1.15 V	336	35.0	16.2
7	11060.00	40.7 AV	54.0	-13.3	1.15 V	336	24.5	16.2
8	#16590.00	51.8 PK	68.2	-16.4	1.11 V	178	31.6	20.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

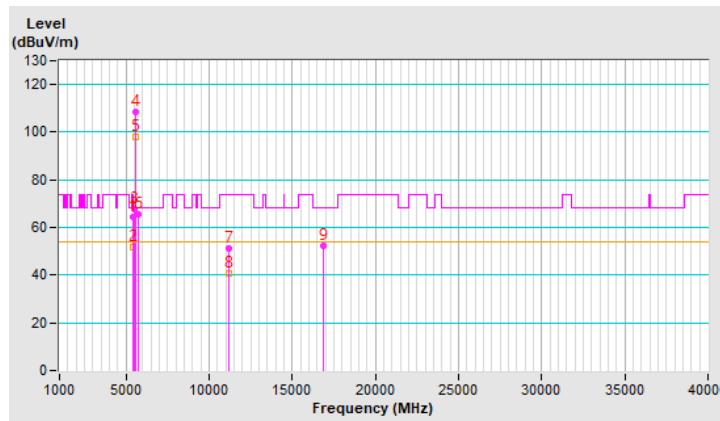


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.2 PK	74.0	-9.8	1.63 H	359	58.6	5.6
2	5460.00	52.0 AV	54.0	-2.0	1.63 H	359	46.4	5.6
3	#5470.00	67.9 PK	68.2	-0.3	1.63 H	359	62.3	5.6
4	*5610.00	108.6 PK			1.63 H	359	102.9	5.7
5	*5610.00	97.9 AV			1.63 H	359	92.2	5.7
6	#5725.00	65.7 PK	68.2	-2.5	1.63 H	359	59.9	5.8
7	11220.00	51.3 PK	74.0	-22.7	1.23 H	322	35.3	16.0
8	11220.00	40.9 AV	54.0	-13.1	1.23 H	322	24.9	16.0
9	#16830.00	52.2 PK	68.2	-16.0	1.27 H	74	31.0	21.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

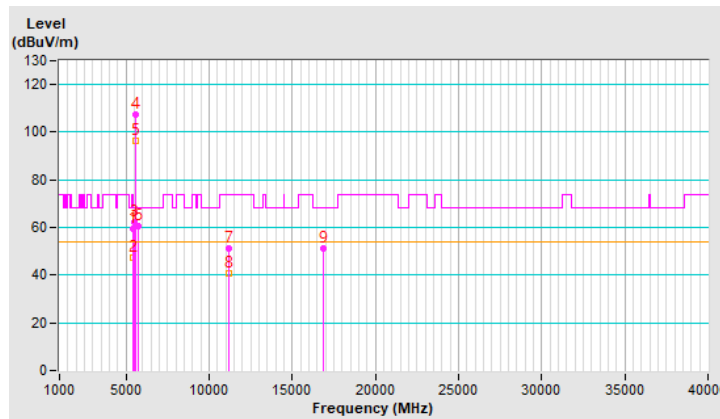


RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.3 PK	74.0	-14.7	3.92 V	70	53.7	5.6
2	5460.00	47.5 AV	54.0	-6.5	3.92 V	70	41.9	5.6
3	#5470.00	62.3 PK	68.2	-5.9	3.92 V	70	56.7	5.6
4	*5610.00	107.4 PK			3.92 V	70	101.7	5.7
5	*5610.00	96.2 AV			3.92 V	70	90.5	5.7
6	#5725.00	60.5 PK	68.2	-7.7	3.92 V	70	54.7	5.8
7	11220.00	51.0 PK	74.0	-23.0	1.18 V	331	35.0	16.0
8	11220.00	40.7 AV	54.0	-13.3	1.18 V	331	24.7	16.0
9	#16830.00	51.4 PK	68.2	-16.8	1.12 V	176	30.2	21.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

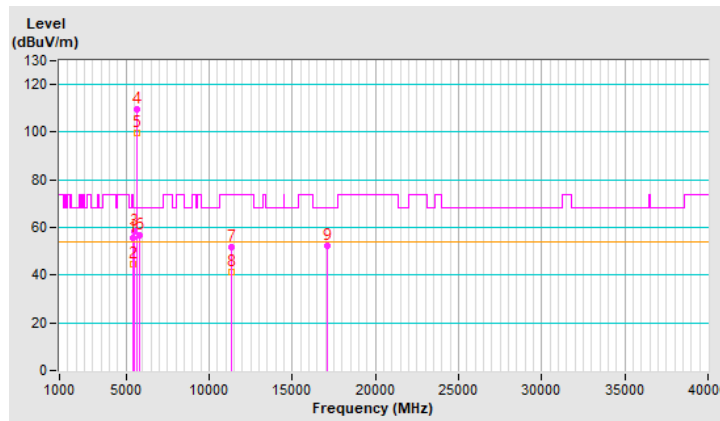


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.4 PK	74.0	-18.6	1.64 H	348	49.8	5.6
2	5460.00	44.4 AV	54.0	-9.6	1.64 H	348	38.8	5.6
3	#5470.00	58.3 PK	68.2	-9.9	1.64 H	348	52.7	5.6
4	*5690.00	109.8 PK			1.64 H	348	104.0	5.8
5	*5690.00	99.6 AV			1.64 H	348	93.8	5.8
6	#5850.00	56.5 PK	68.2	-11.7	1.64 H	348	50.0	6.5
7	11380.00	51.7 PK	74.0	-22.3	1.16 H	330	35.0	16.7
8	11380.00	41.1 AV	54.0	-12.9	1.16 H	330	24.4	16.7
9	#17070.00	52.4 PK	68.2	-15.8	1.23 H	67	30.7	21.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

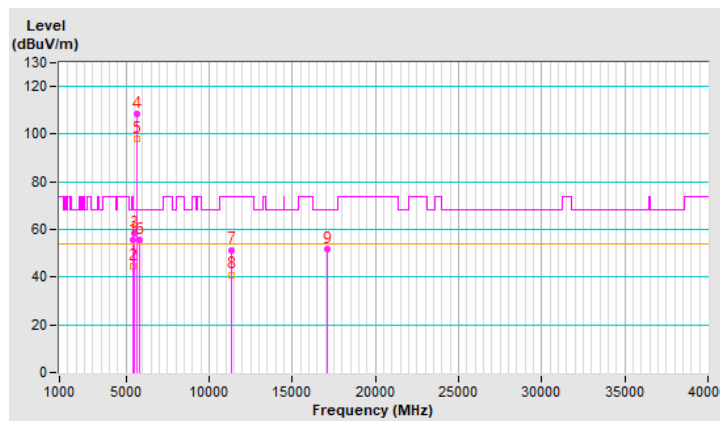


RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.7 PK	74.0	-18.3	3.98 V	79	50.1	5.6
2	5460.00	44.6 AV	54.0	-9.4	3.98 V	79	39.0	5.6
3	#5470.00	58.6 PK	68.2	-9.6	3.98 V	79	53.0	5.6
4	*5690.00	108.5 PK			3.98 V	79	102.7	5.8
5	*5690.00	98.1 AV			3.98 V	79	92.3	5.8
6	#5850.00	55.7 PK	68.2	-12.5	3.98 V	79	49.2	6.5
7	11380.00	51.5 PK	74.0	-22.5	1.21 V	335	34.8	16.7
8	11380.00	41.0 AV	54.0	-13.0	1.21 V	335	24.3	16.7
9	#17070.00	51.7 PK	68.2	-16.5	1.17 V	199	30.0	21.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

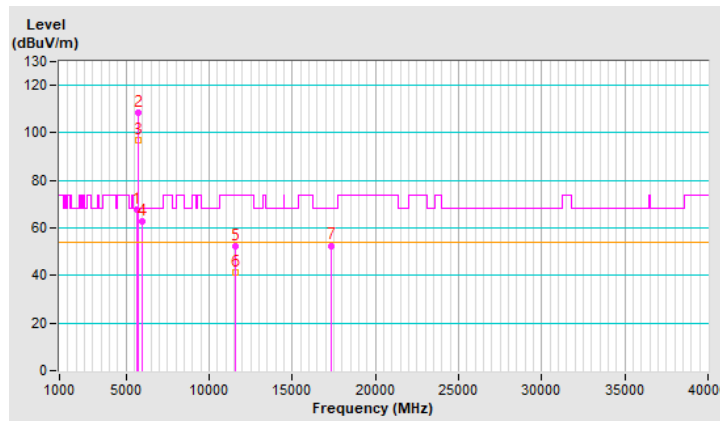


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.86	67.8 PK	68.2	-0.4	1.36 H	349	61.9	5.9
2	*5775.00	108.5 PK			1.36 H	349	102.4	6.1
3	*5775.00	96.8 AV			1.36 H	349	90.7	6.1
4	#5934.31	62.9 PK	68.2	-5.3	1.36 H	349	56.6	6.3
5	11550.00	52.1 PK	74.0	-21.9	1.21 H	335	35.4	16.7
6	11550.00	41.4 AV	54.0	-12.6	1.21 H	335	24.7	16.7
7	#17325.00	52.6 PK	68.2	-15.6	1.25 H	88	31.4	21.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

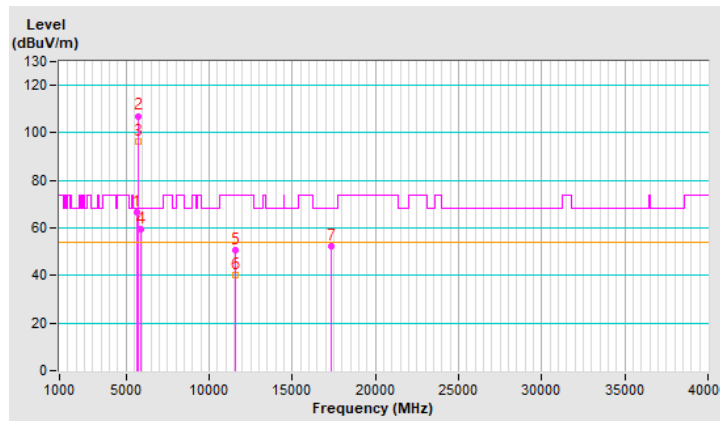


RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

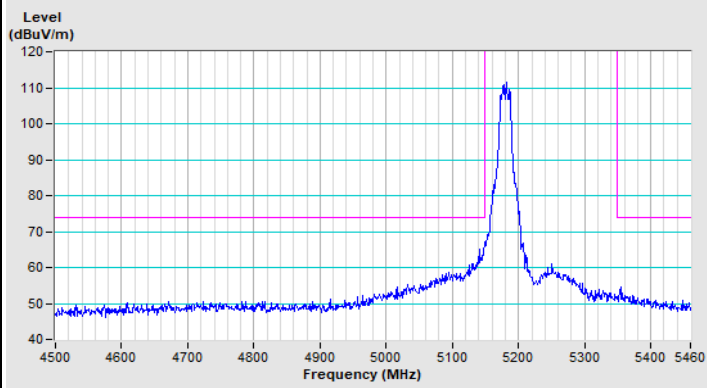
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.41	66.5 PK	68.2	-1.7	3.84 V	56	60.6	5.9
2	*5775.00	107.1 PK			3.84 V	56	101.0	6.1
3	*5775.00	96.6 AV			3.84 V	56	90.5	6.1
4	#5928.29	59.5 PK	68.2	-8.7	3.84 V	56	53.2	6.3
5	11550.00	50.6 PK	74.0	-23.4	1.18 V	341	33.9	16.7
6	11550.00	40.3 AV	54.0	-13.7	1.18 V	341	23.6	16.7
7	#17325.00	52.1 PK	68.2	-16.1	1.19 V	182	30.9	21.2

Remarks:

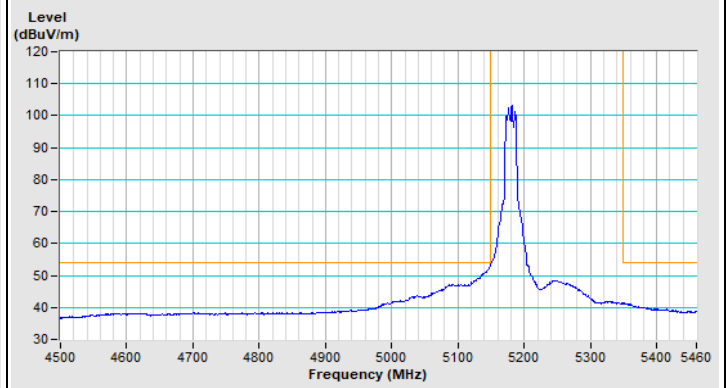
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



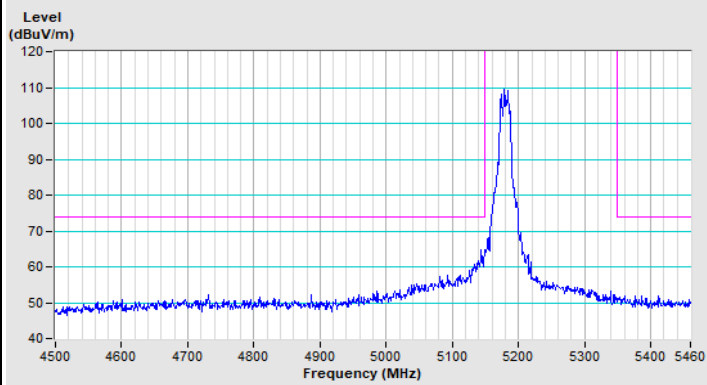
802.11a Channel 36



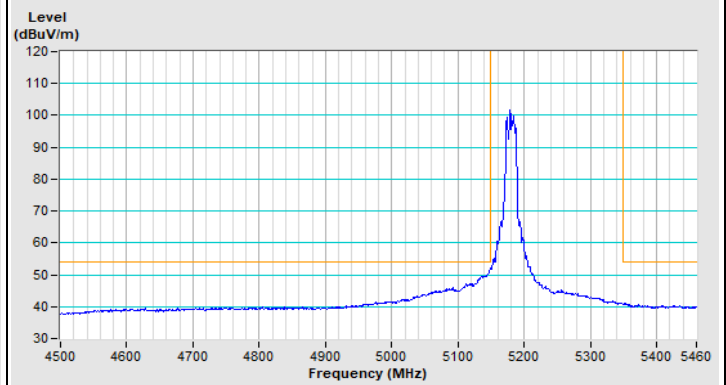
Horizontal (Peak)



Horizontal (Average)

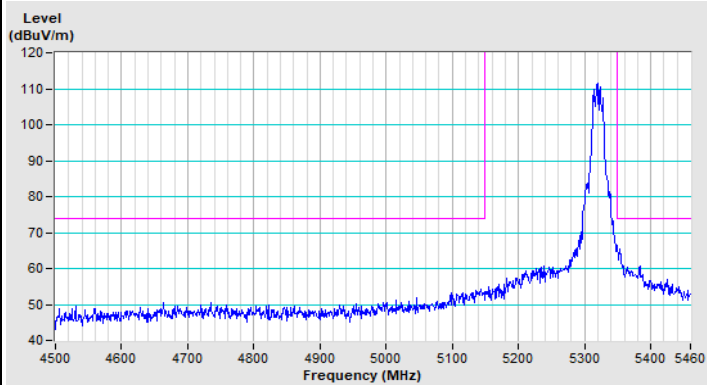


Vertical (Peak)

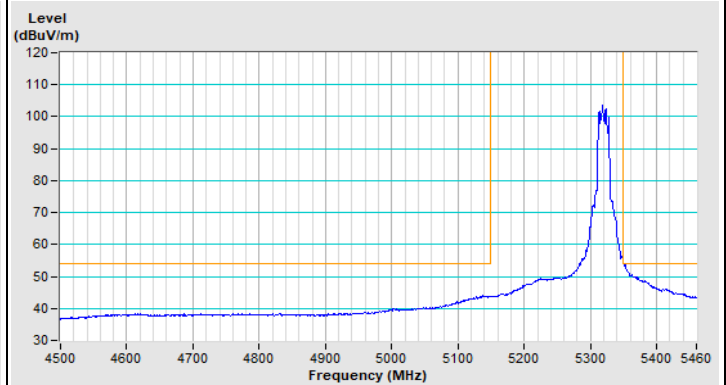


Vertical (Average)

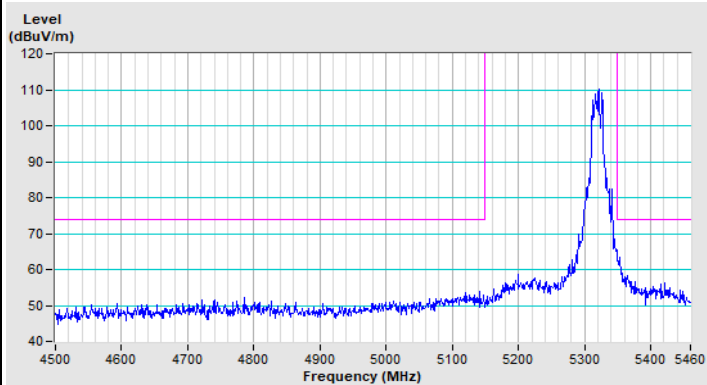
802.11a Channel 64



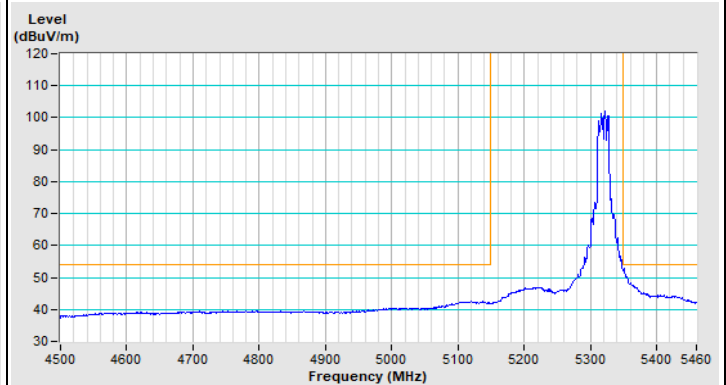
Horizontal (Peak)



Horizontal (Average)

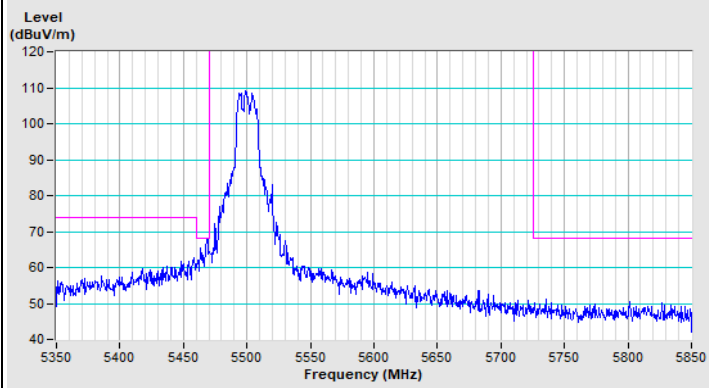


Vertical (Peak)

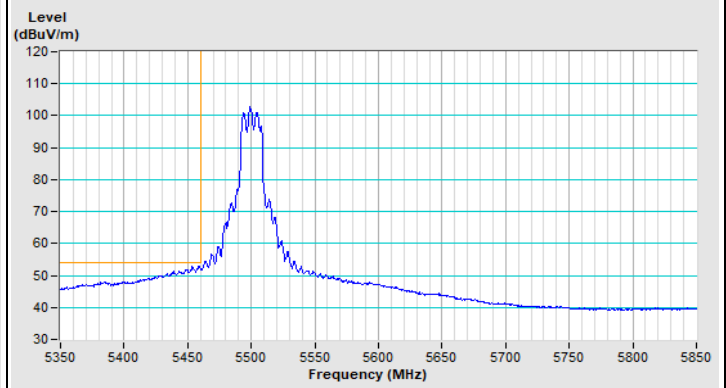


Vertical (Average)

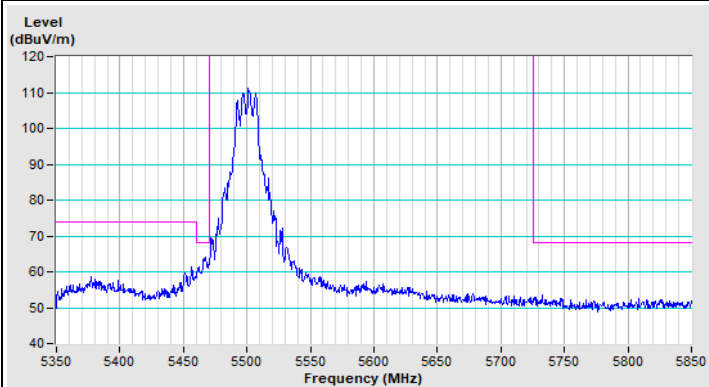
802.11a Channel 100



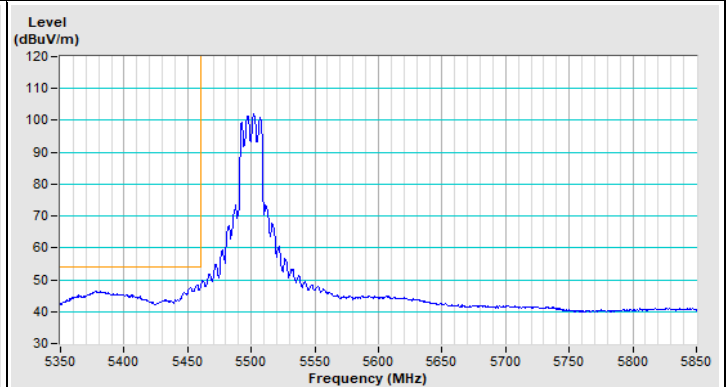
Horizontal (Peak)



Horizontal (Average)

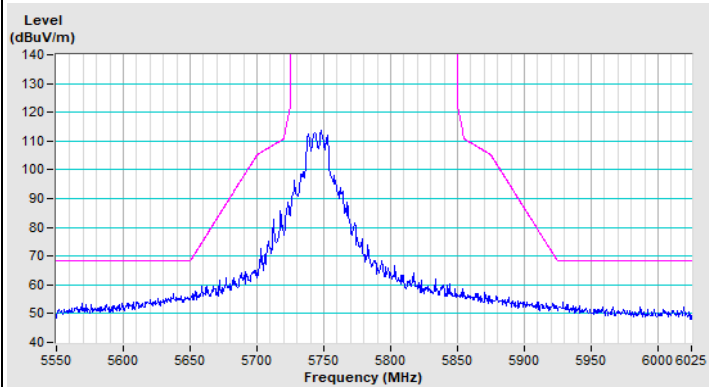


Vertical (Peak)

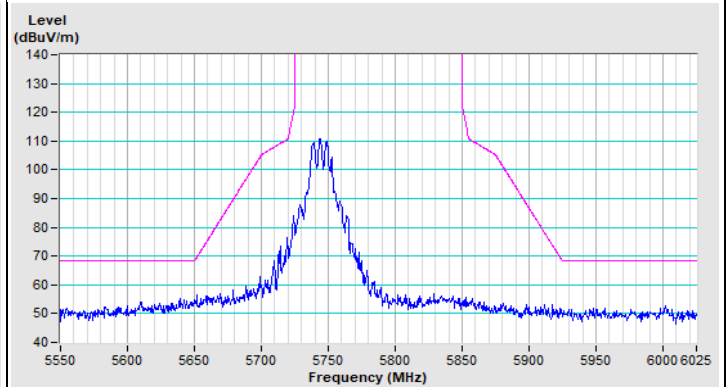


Vertical (Average)

802.11a Channel 149

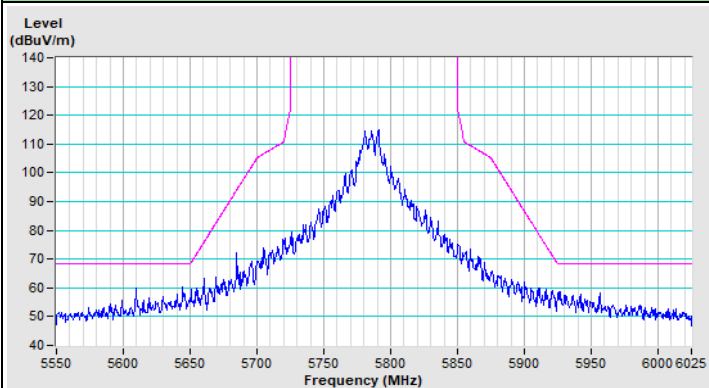


Horizontal (Peak)

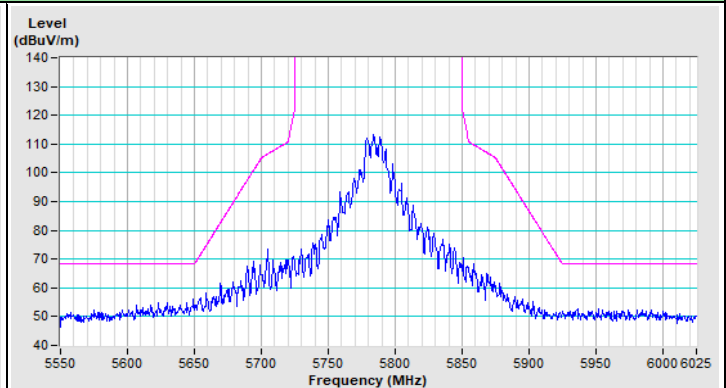


Vertical (Peak)

802.11a Channel 157



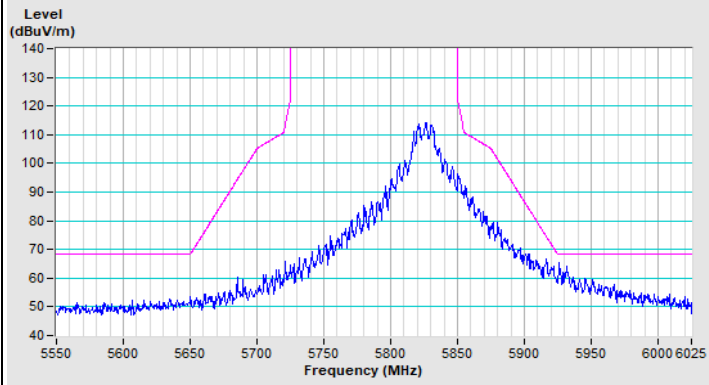
Horizontal (Peak)



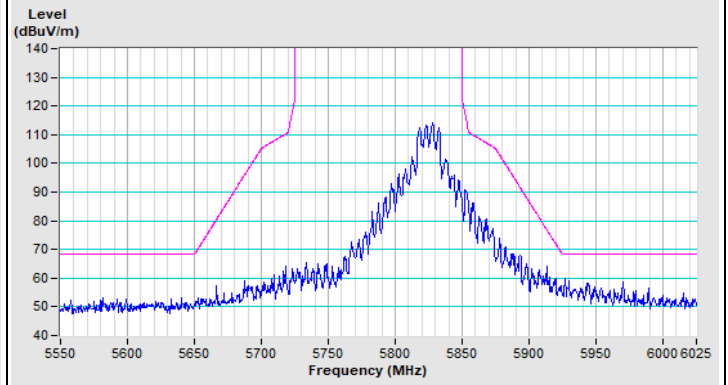
Vertical (Peak)



802.11a Channel 165

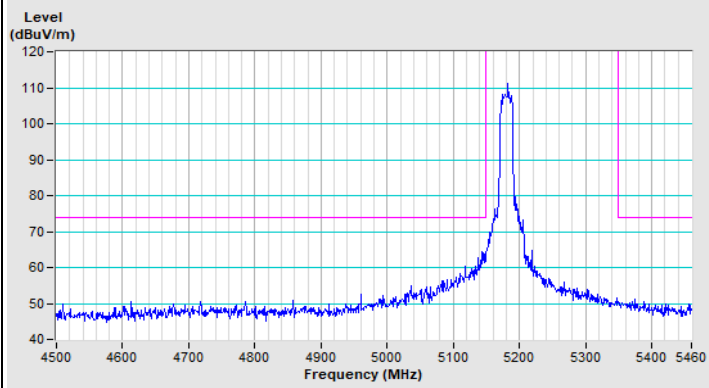


Horizontal (Peak)

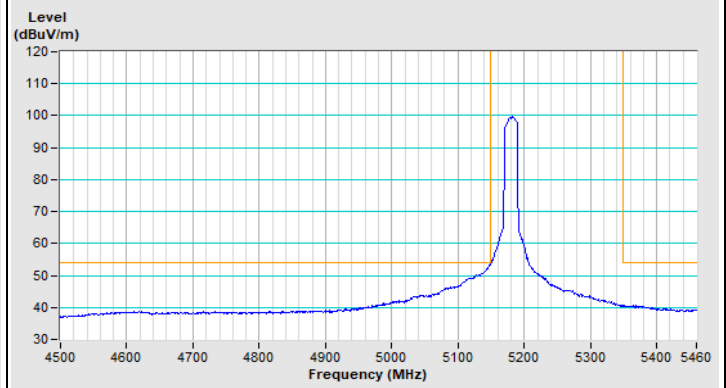


Vertical (Peak)

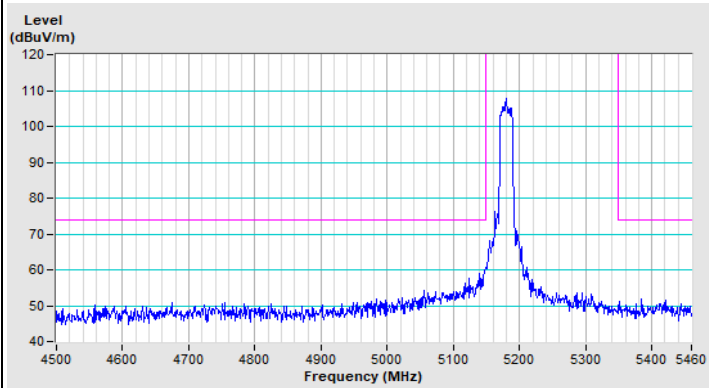
802.11ax (HE20) Channel 36



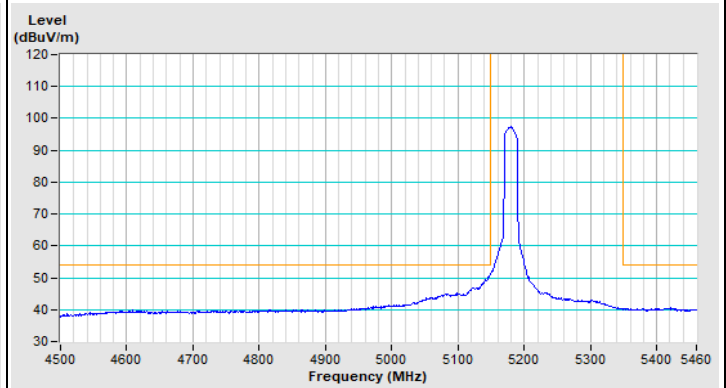
Horizontal (Peak)



Horizontal (Average)

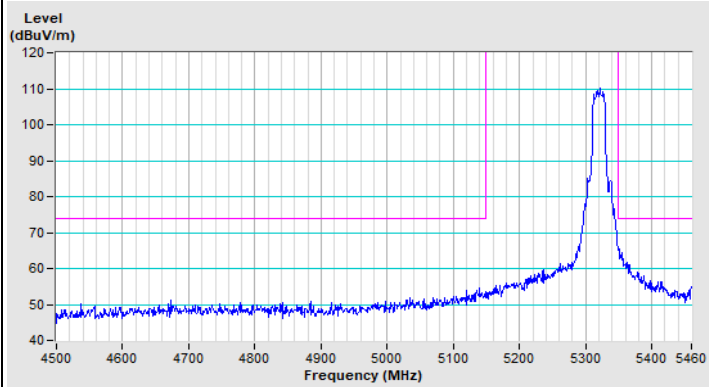


Vertical (Peak)

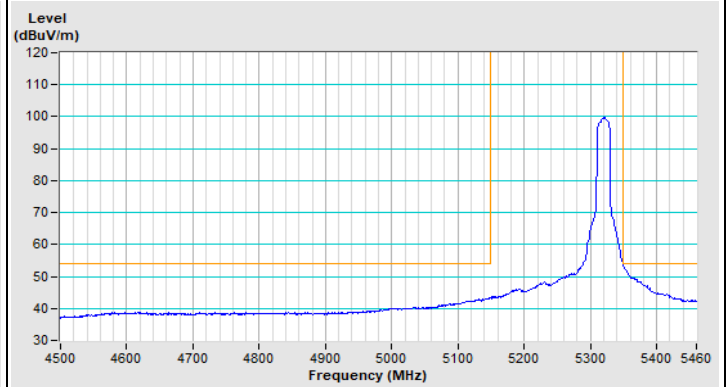


Vertical (Average)

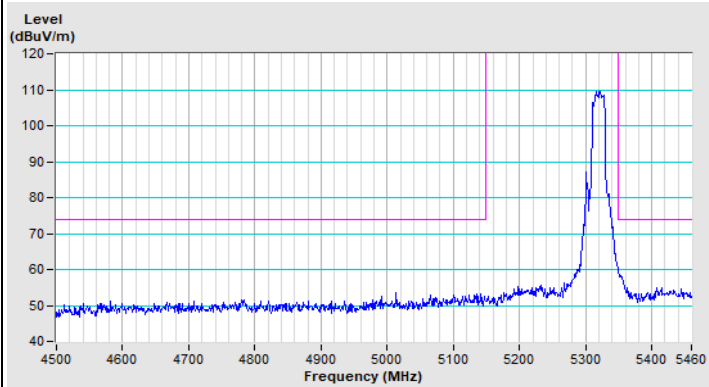
802.11ax (HE20) Channel 64



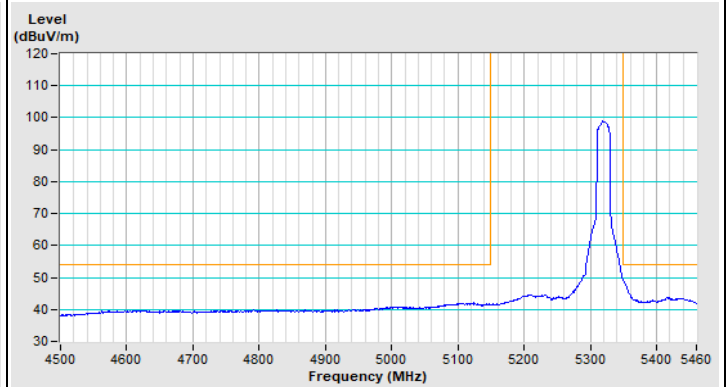
Horizontal (Peak)



Horizontal (Average)

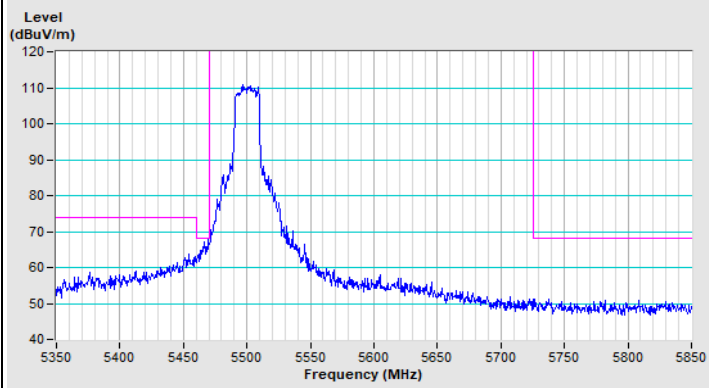


Vertical (Peak)

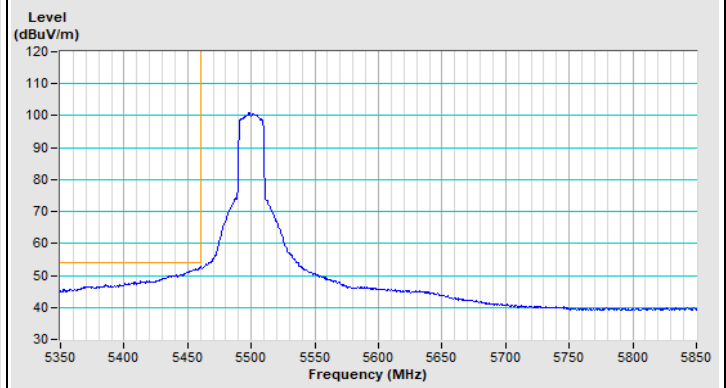


Vertical (Average)

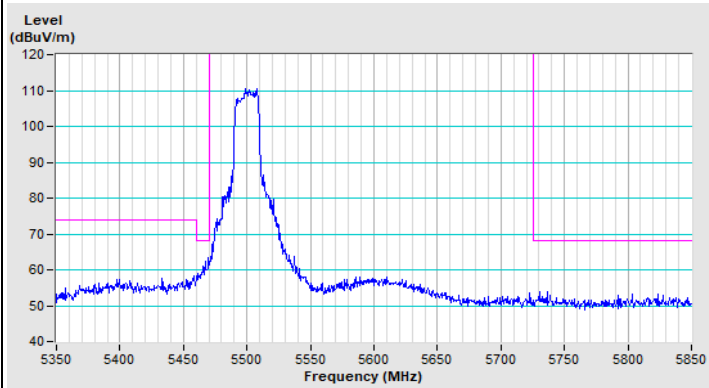
802.11ax (HE20) Channel 100



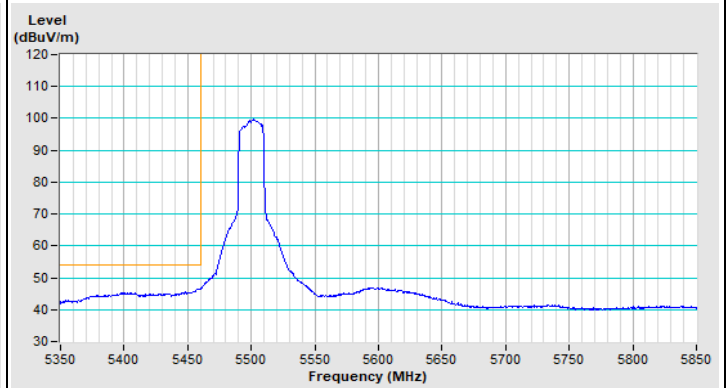
Horizontal (Peak)



Horizontal (Average)

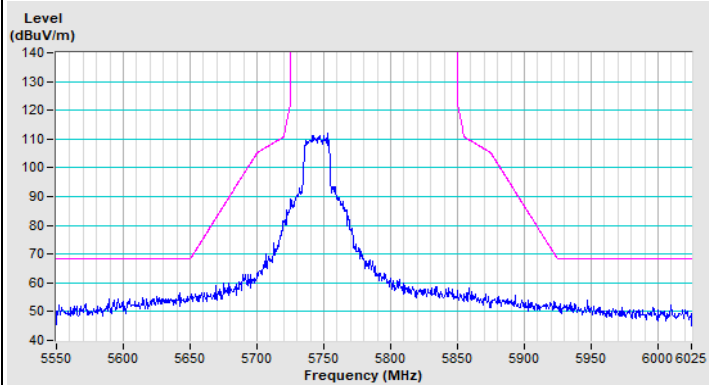


Vertical (Peak)

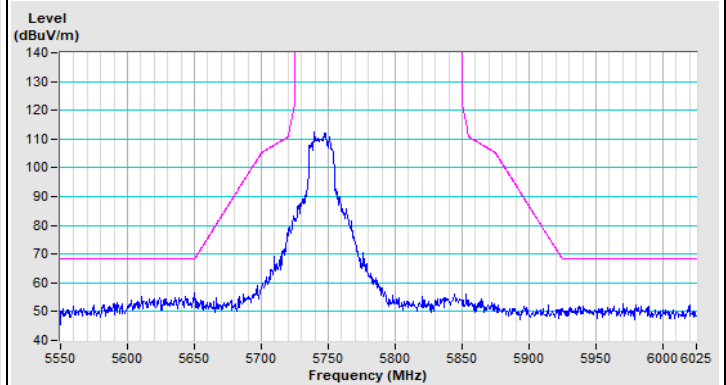


Vertical (Average)

802.11ax (HE20) Channel 149

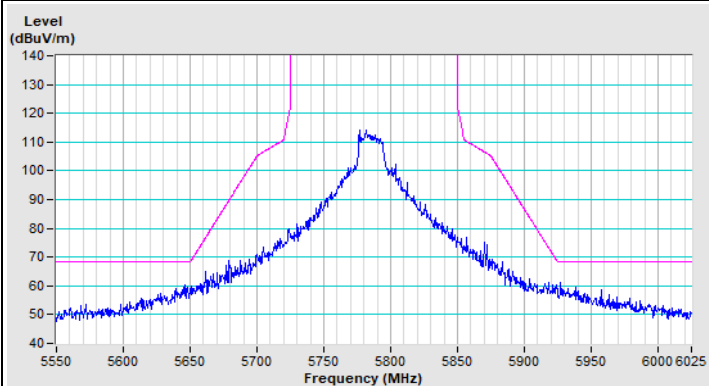


Horizontal (Peak)

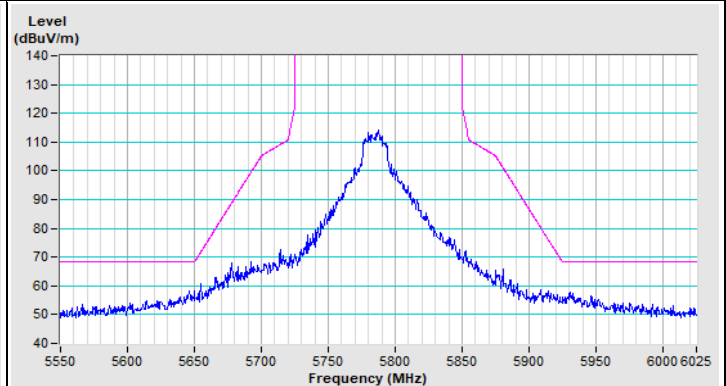


Vertical (Peak)

802.11ax (HE20) Channel 157

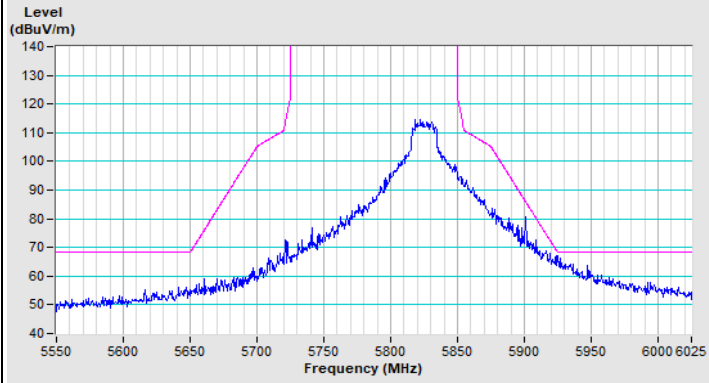


Horizontal (Peak)

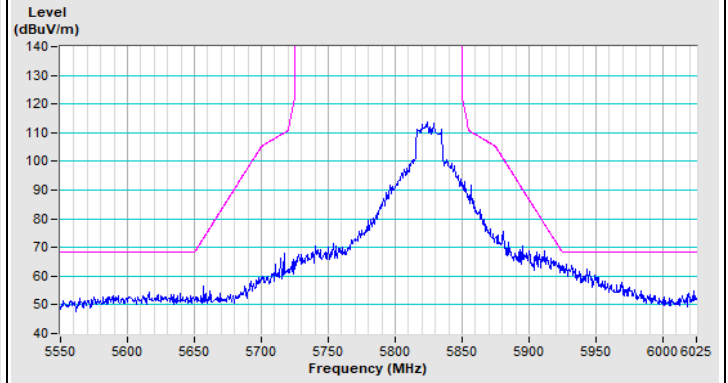


Vertical (Peak)

802.11ax (HE20) Channel 165

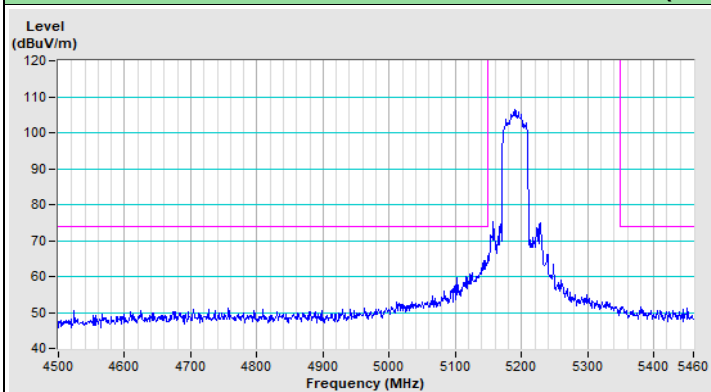


Horizontal (Peak)

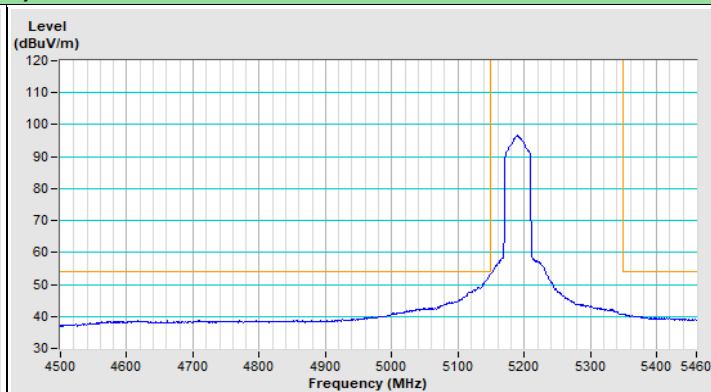


Vertical (Peak)

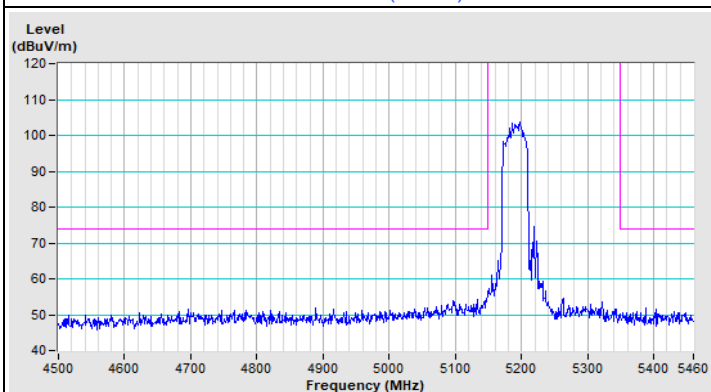
802.11ax (HE40) Channel 38



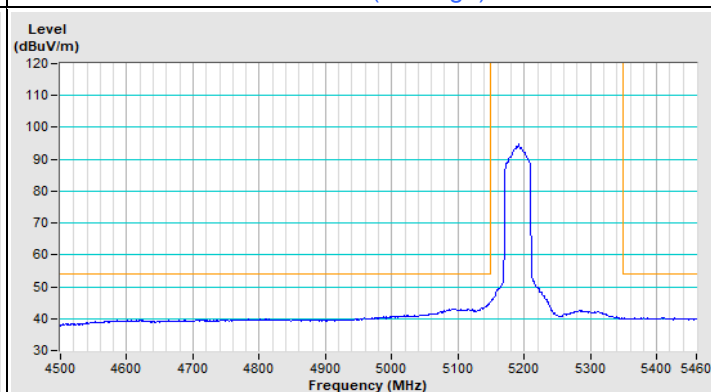
Horizontal (Peak)



Horizontal (Average)

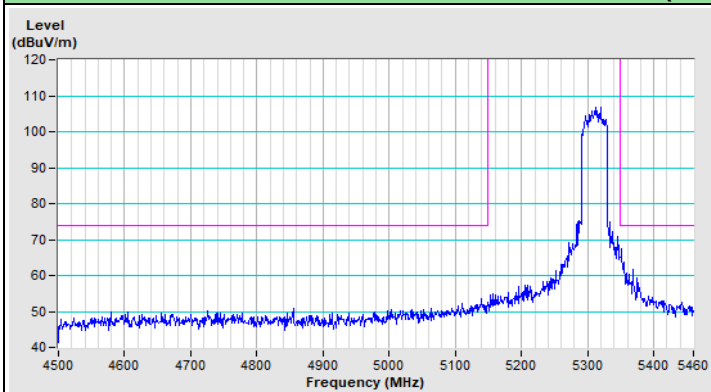


Vertical (Peak)

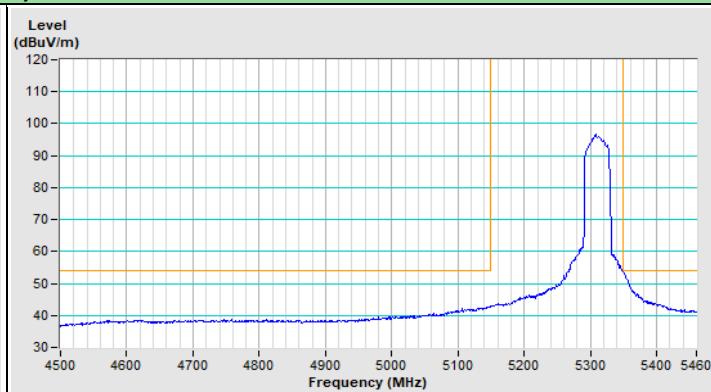


Vertical (Average)

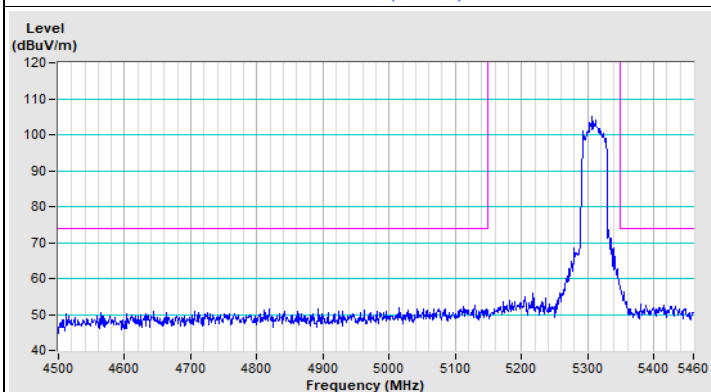
802.11ax (HE40) Channel 62



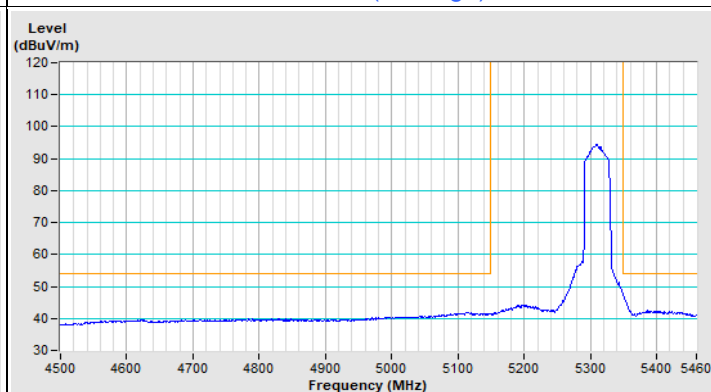
Horizontal (Peak)



Horizontal (Average)

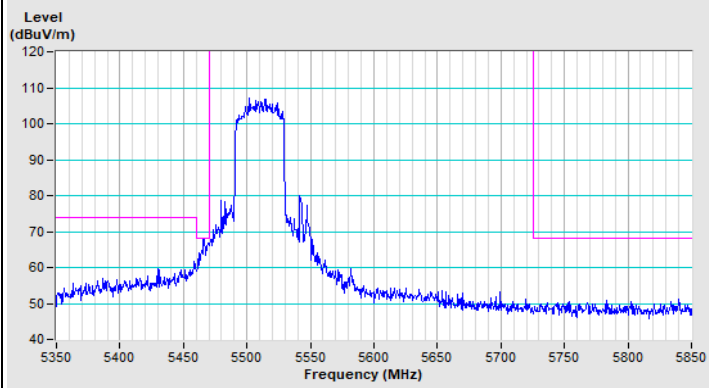


Vertical (Peak)

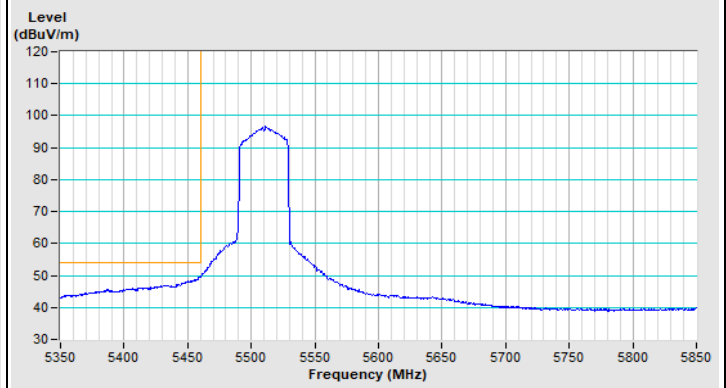


Vertical (Average)

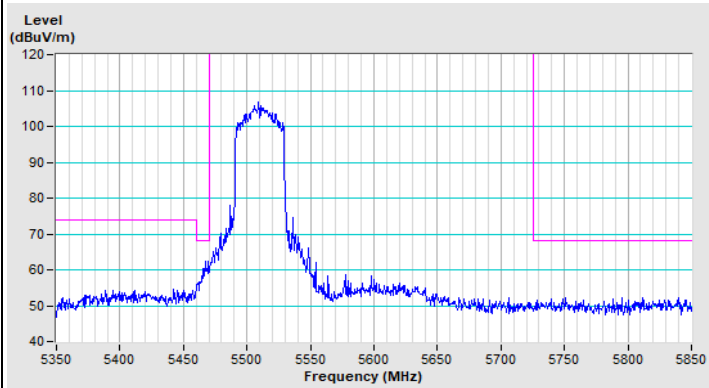
802.11ax (HE40) Channel 102



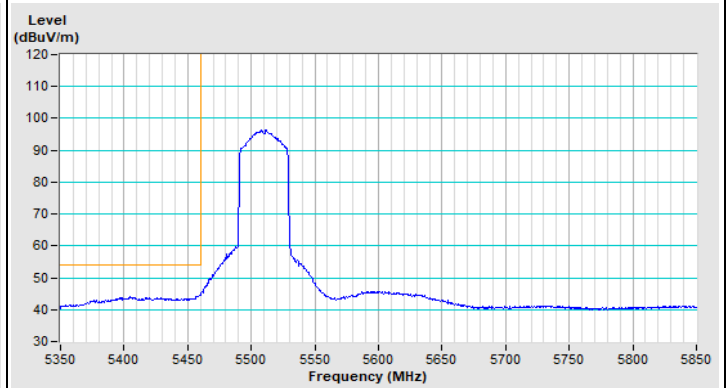
Horizontal (Peak)



Horizontal (Average)

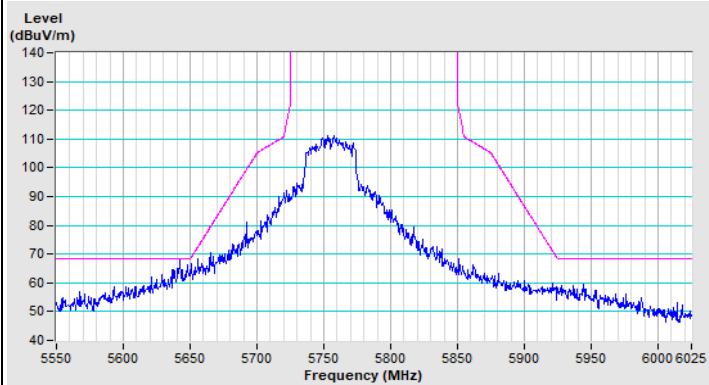


Vertical (Peak)

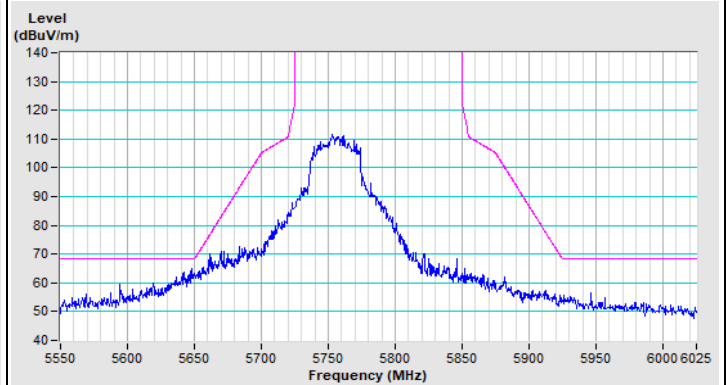


Vertical (Average)

802.11ax (HE40) Channel 151

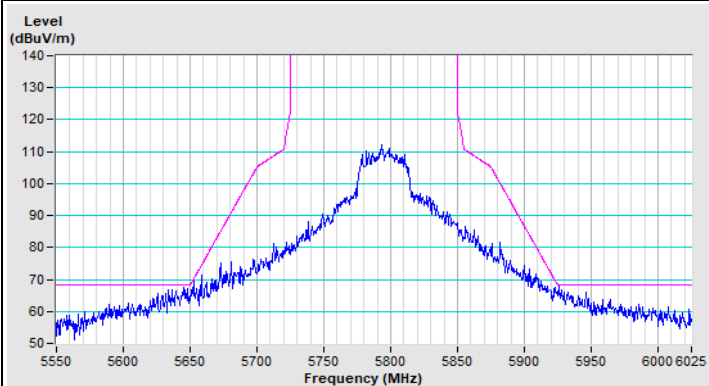


Horizontal (Peak)

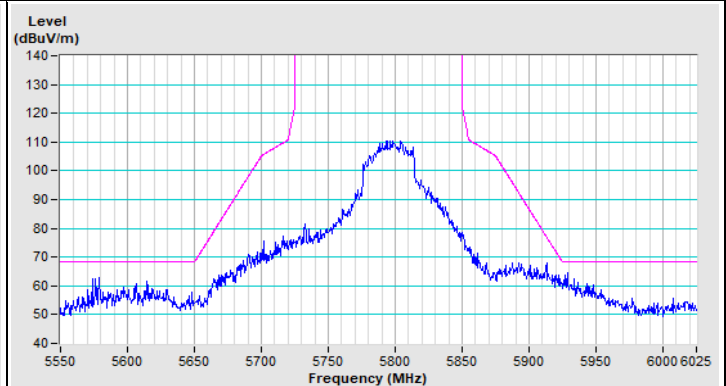


Vertical (Peak)

802.11ax (HE40) Channel 159

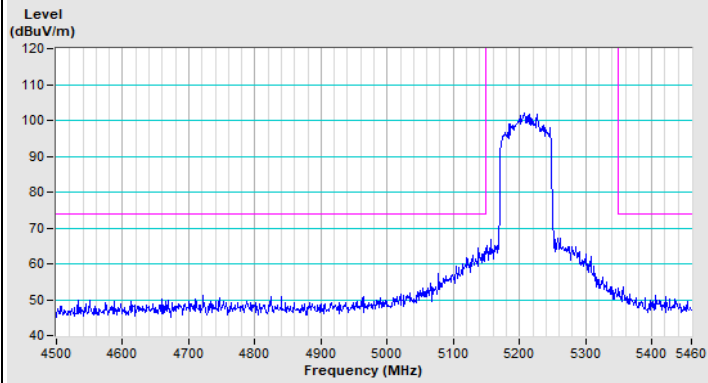


Horizontal (Peak)

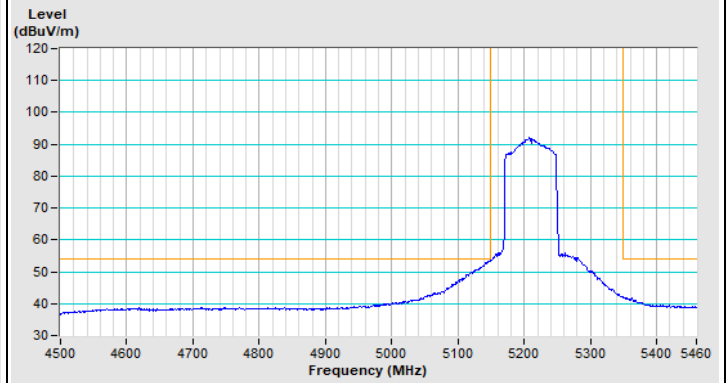


Vertical (Peak)

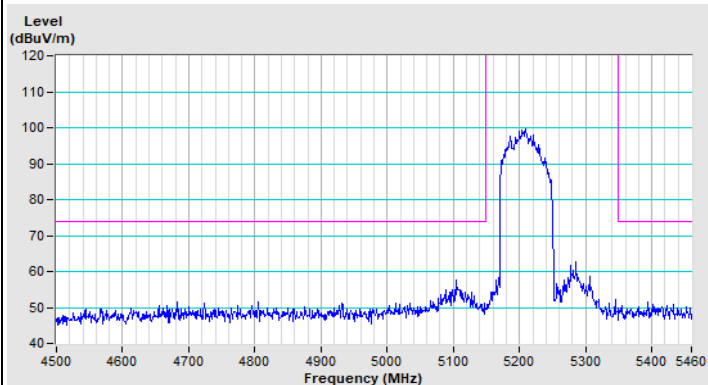
802.11ax (HE80) Channel 42



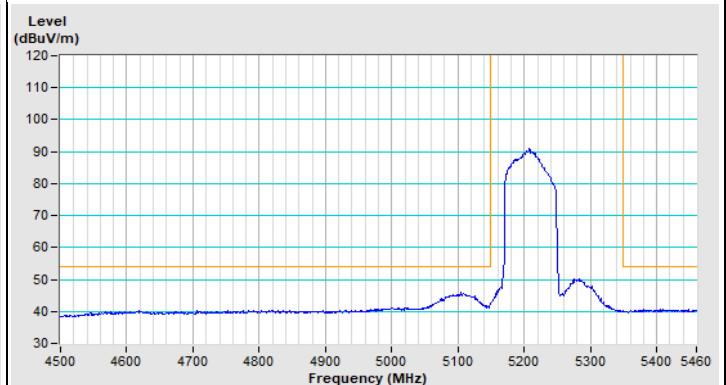
Horizontal (Peak)



Horizontal (Average)

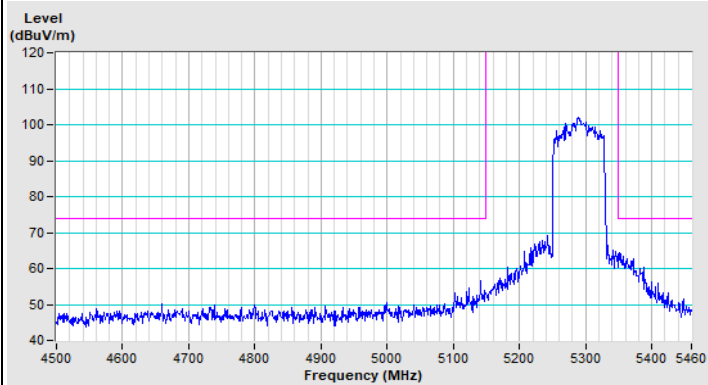


Vertical (Peak)

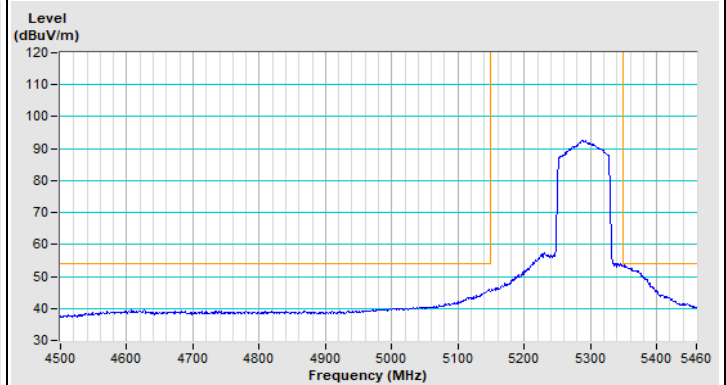


Vertical (Average)

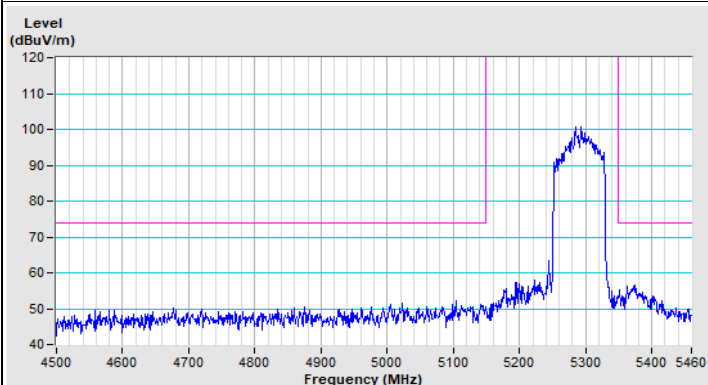
802.11ax (HE80) Channel 58



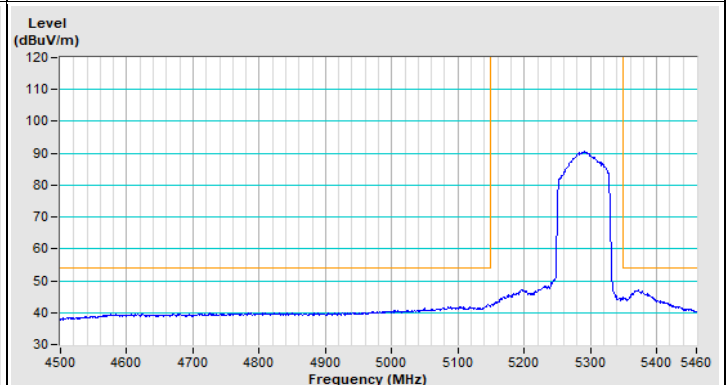
Horizontal (Peak)



Horizontal (Average)

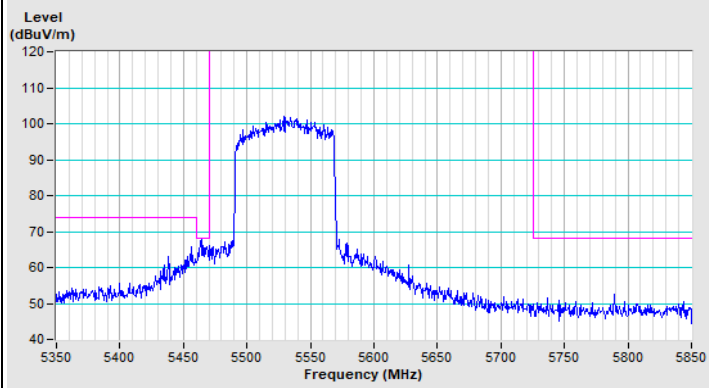


Vertical (Peak)

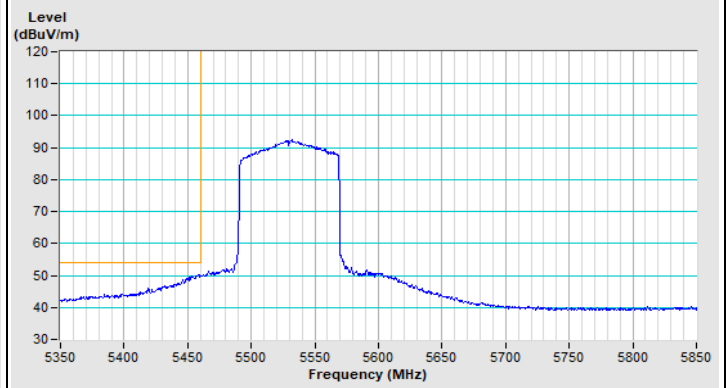


Vertical (Average)

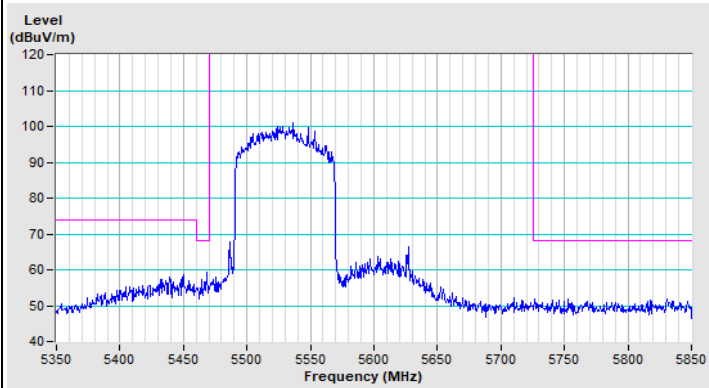
802.11ax (HE80) Channel 106



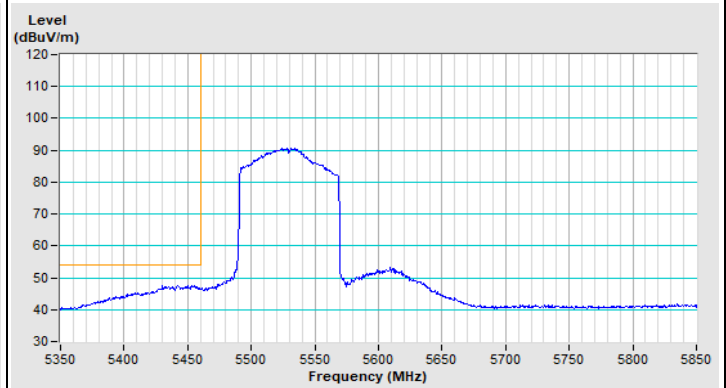
Horizontal (Peak)



Horizontal (Average)

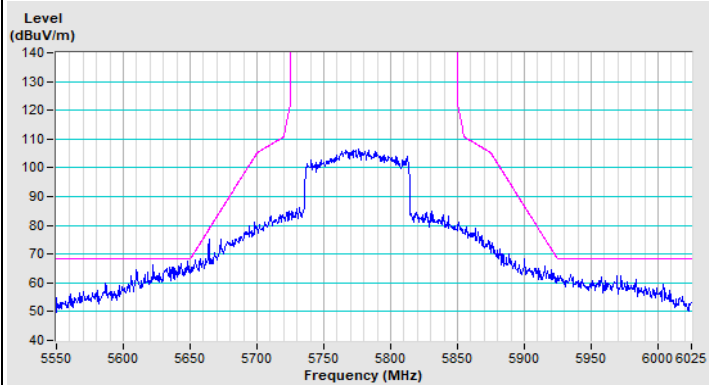


Vertical (Peak)

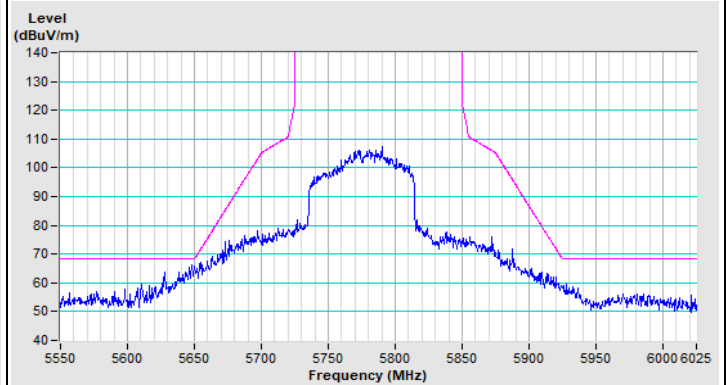


Vertical (Average)

802.11ax (HE80) Channel 155



Horizontal (Peak)



Vertical (Peak)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

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Fax: 886-3-6668323

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Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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